CONSOLIDATED INDICES 1948-1952

Volumes 59-68

Consolidated Indices

VOLUME IV

Embracing
The American Journal of Roentgenology
and Radium Therapy

Author and Subject: 1948-1952

Compiled under the direction of
The Publication Committee and
The Editorial Office of the
American Roentgen Ray Society

CHARLES C THOMAS · PUBLISHER
Springfield · Illinois · U.S.A.

CHARLES C THOMAS · PUBLISHER

BANNERSTONE HOUSE

301-327 EAST LAWRENCE AVENUE · SPRINGFIELD · ILLINOIS · U.S.A.

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Library of Congress Catalog Card No. 39-17723

Printed in the United States of America

FOREWORD TO VOLUME IV: 1948-1952

THE *American Journal of Roentgenology, Radium Therapy and Nuclear Medicine* takes pleasure in presenting Volume IV, of the Consolidated Indices, covering the five-year period from 1948-1952, Volumes 59-68, inclusive. The Consolidated Indices, Volumes I, II and III, of the American Roentgen Ray Society's publications cover the years from the inception of the Society's publications in 1900 through 1947. These publications, namely I, II and III, represent the beginnings and the growth of the use of roentgen ray and radium, and in these later years the application of atomic medicine, in their diagnostic and therapeutic aids in both medicine and surgery.

It will be noted that there has been a change in the title of the *American Journal of Roentgenology and Radium Therapy* to the *American Journal of Roentgenology, Radium Therapy and Nuclear Medicine.*

Volume IV, of the Consolidated Indices, has followed the helpful changes that have been made in the preparation of Volume III. For instance, in Volume IV, it will be noted that under a given subject entry the name or names of the authors appear so that if one desires to consult a particular article by a given author, the information is readily accessible. In Volume IV, of the Consolidated Indices, there is no separation of authors and subjects, but the authors appear throughout the index in their proper alphabetical order. It will be noted also that we have followed Volume III, of the Consolidated Indices, in certain other respects, namely, that the respective volume numbers of the *American Journal of Roentgenology, Radium Therapy and Nuclear Medicine* appear in bold face arabic type rather than in the roman numerals which were used in Volumes I and II, of the Consolidated Indices. Also, the slightly larger size of type which was instituted in Volume III, has been used in this Index.

The Index has been compiled with the thoroughness that was employed in Volume III, of the Consolidated Indices, and as was stated in the Foreword to Volume III, of the Consolidated Indices, "The measure of any index is its usability and the thoroughness with which the index is compiled." These prerequisites have been conformed with in the compilation and editing of Volume IV, of the Consolidated Indices. As an example of the thoroughness with which the compilation of this index has been carried out is exemplified in the fact that not only have the titles of each article been indexed but each article and volume have been indexed page by page in much the same manner that textbooks are indexed; thereby adding appreciably to the completeness of the Index. In Volume IV, of the Consolidated Indices, the original articles, editorials, obituaries, all material appearing in the Department of Correspondence, book reviews, and abstracts have been carefully and thoroughly indexed both as to subjects and authors.

It is our sincere hope and belief that the publication of Volume IV, of the Consolidated Indices, covering the period of 1948-1952, will add materially to the facility with which articles dealing with radiology and its application to all branches of medicine and allied subjects, as published in the *American Journal of Roentgenology, Radium Therapy and Nuclear Medicine,* are made accessible, and that the four volumes of the Consolidated Indices will fulfill the needs of the medical and allied professions in making available the vast amount of material which has appeared in the *American Journal of Roentgenology, Radium Therapy and Nuclear Medicine.*

L. R.

FOREWORD TO VOLUME III: 1943-1947

THE *American Journal of Roentgenology and Radium Therapy* takes pleasure in presenting Volume III of the Consolidated Indices, covering the five year period from 1943 to 1947, Volumes 49-58 inclusive. The Consolidated Indices, Volumes I, II and III, of the American Roentgen Ray Society's publications cover the years from the inception of the Society's publications in 1900 through 1947, a period of nearly fifty years. These publications represent the beginnings and the growth of the roentgen ray and radium and in these later years the applications of atomic medicine, in their diagnostic and therapeutic aids in both medicine and surgery.

It will be noted in consulting Volume III of the Consolidated Indices that certain helpful changes have been made in the preparation of this index. For instance, it will be noted that under a given subject entry the name or names of the authors appear so that if one desires to consult a particular article by a given author, the information is readily accessible. In this index there is no separation of authors and subjects, but the authors appear throughout the index in their proper alphabetical order. Another helpful change which has been made in this volume is that the respective volume numbers of the *American Journal of Roentgenology and Radium Therapy* appear in bold face arabic type rather than in the roman numerals used in the previous volumes of the Consolidated Indices, and a slightly larger size of type has been used in this index.

The measure of any index is its usability and the thoroughness with which the index is compiled. It is the belief of those who have had to do with the compilation and editing of this volume that these prerequisites have been fulfilled. The thoroughness with which the compilation of this index has been carried out is exemplified in the fact that not only have the titles of each article been indexed but each article and volume have been indexed page by page in much the same manner that textbooks are indexed, thus adding to the completeness of the index. As in all previous Consolidated Indices, in Volume III the original articles, editorials, obituaries, all material appearing in the Department of Correspondence, book reviews and the abstracts have been carefully and thoroughly indexed both as to subjects and authors.

It is our belief and hope that the publication of Volume III of the Consolidated Indices covering this five year period, 1943-1947, will add greatly to the facility with which articles dealing with radiology and its application to all branches of medicine and allied subjects, as published in the *American Journal of Roentgenology and Radium Therapy,* are made accessible, and that the three volumes of the Consolidated Indices will fulfill the needs of the medical and allied professions in making available the vast amount of material which has appeared in the *American Journal of Roentgenology and Radium Therapy.*

L. R.

FOREWORD TO VOLUME II: 1938-1942

When the American Roentgen Ray Society published the first volume of the Consolidated Indices, it was their purpose and intention to issue an index of the *American Journal of Roentgenology and Radium Therapy* thereafter at five year intervals, and herewith the Society presents Volume II of the Consolidated Indices, covering the period from 1938 to 1942. We are again fortunate in having obtained the services of Dr. George H. Smith who so ably compiled the first volume of the Indices. Therefore one may expect from this volume the same high quality of scholarship and experience as is evidenced in the first volume. The American Roentgen Ray Society issues this volume with the assurance that it will fill a very definite need and will be welcomed by those who have occasion to consult the *American Journal of Roentgenology and Radium Therapy* during this five year period.

L. R.

FOREWORD TO VOLUME I: 1903-1937

The American Roentgen Ray Society was organized at a meeting in St. Louis in 1900 and for a number of years the papers read at its annual meetings were published in the form of *Transactions.* It was not until 1906 that the Society had an official journal known as the *American Quarterly of Roentgenology* and this was published from 1906 to 1913. In 1913 the name of the Quarterly was changed to the *American Journal of Roentgenology* and this was published as a monthly journal with one volume a year until 1923, when the title was changed to the *American Journal of Roentgenology and Radium Therapy,* issued monthly, and in two volumes a year. Since 1923 the Journal's name has remained unchanged.

Up to this time no attempt has been made to compile a comprehensive index covering all these publications of the American Roentgen Ray Society. Under the chairmanship of Dr. Merrill C. Sosman, the

Publication Committee, in collaboration with the Editorial Office, began early in 1936 to formulate plans for a complete subject and author index covering the entire group of publications. We were fortunate in securing the services of Dr. George H. Smith to deal with this mass of material. Dr. Smith has brough both scholarship and experience to bear on this task and the results of his compilation are as near perfection as any index is permitted to be.

In these Consolidated Indices, the Transactions of the Society, the original articles, editorials, biographical and historical sketches, together with the abstracts of both domestic and foreign journals have been carefully and thoroughly indexed both with regard to subjects and authors.

Dr. Smith, in his Introductory Note, has called attention to the difficult task with which he was confronted and he has also given an adequate description of the methods of compiling a workable index to such an enormous amount of material. It is only necessary to consult the Indices to see that he has accomplished this task in a very praiseworthy manner.

At long last, the American Roentgen Ray Society is able to present to the medical world a complete subject and author index of its entire publications, which cover a period representing the beginnings and growth of the roentgen ray and radium as ancillaries of medicine and surgery.

L. R.

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—— double gallbladder; roentgenographic demonstration of case of "Y" type; classification of accessory gallbladder (A. P. Ingegno and J. B. D'Albora), 1949, **61,** *671
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de Andrade, M. A., and **de Brito Pereira, L. P.:** Spontaneous bilidigestive fistulas, 1951, **66,** 128 (ab)
Andreasen, A. T.: Congenital absence of the humeral head; report of 2 cases, 1949, **61,** 138 (ab)
—— Avulsion fracture of lesser tuberosity of humerus; report of case, 1949, **61,** 139 (ab)
Andresen, P. E.: See **Krebs, C.,** jt. auth.
Andrews, G. A.: See **Bethell, F. H.,** jt. auth.
—— See **Furth, J.,** jt. auth.
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Andrews, G. S.: See **Thompson, N. M.,** jt. auth.
Andrews, J. R.: Cancer detection centers; their role in cancer control, 1948, **60,** *824
—— and **Coppedge, T. O.:** Dose-time relationship for the cure of squamous cell carcinoma; its derivation and significance (scientific exhibit), 1950, **64,** 850 (ab)
—— Dose-time relationship for cure of squamous cell carcinoma, 1951, **65,** *934
Andrews, N. C.: See **Klassen, K. P.,** jt. auth.
Androgenital syndrome, dental manifestations (E. C. Stafne), 1952, **68,** 991 (ab)

Androgens: See also Hormones
—— hormonal therapy and castration in primary cancer of female breast and its metastases (V. Costa), 1952, **67,** 340 (ab)
—— testosterone propionate therapy of breast cancer (S. Kaae), 1950, **63,** 288 (ab)
—— testosterone propionate therapy of cancer of breast; effect on clinical course and hormonal excretion (A. Segaloff and others), 1952, **67,** 707 (ab)
—— testosterone therapy of breast cancer in women (F. A. Adair), 1948, **59,** 606 (ab)
—— testosterone therapy of far advanced carcinoma of breast (W. G. King), 1951, **66,** 697 (ab)
—— testosterone therapy of metastatic adenocarcinoma of thyroid with remission (H. M. Lemon and others), 1952, **68,** 863 (ab)
—— therapy in control of pulmonary metastases from adenocarcinoma of corpus uteri; case (J. H. Freed, E. P. Pendergrass and J. W. Carnwath), 1951, **65,** *596
Andrus, P. M.: See **Crombie, D. W.,** jt. auth.
Andrus, W. DeW.: See **Steinberg, I.,** jt. auth.
Anemia, achrestic, Crohn's disease localized in jejunum accompanied by chronic pancreatitis (R. Crismer), 1952, **67,** 152 (ab)
—— control by blood irradiation (J. Furth, G. A. Andrews, R. H. Storey and L. Wish), 1952, **67,** 344 (ab)
—— Cooley's erythroblastic in 2 Chinese boys (L. B. Gardner), 1948, **60,** 856 (ab)
—— Cooley's erythroblastic; skeletal findings in adolescents and young adults (J. Caffey), 1951, **65,** *547
—— Cooley's, in Sinhalese children (C. C. de Silva and C. E. S. Weeratunge), 1952, **67,** 1027 (ab)
—— Cooley's; traumatic fractures; cases and considerations of genesis of bone lesions (A. Toti), 1952, **67,** 883 (ab)
—— diaphragmatic hernia with severe anemia after transabdominal vagotomy (D. E. Van Hoek and M. M. Musselman), 1952, **68,** 511 (ab)
—— familial erythroblastic, in an American Indian infant (M. Prouty), 1950, **64,** 872 (ab)
—— induced; effect on radiation damage (scientific exhibit) (L. O. Jacobson and others), 1948, **60,** 555
—— interarterial coronary anastomoses in human heart with particular reference to anemia and relative cardiac anoxia (P. M. Zoll, S. Wessler and M. J. Schlesinger), 1952, **68,** 1002 (ab)
—— leukopenia and Pel-Ebstein fever in Hodgkin's disease (W. C. Riley and L. Gailland), 1951, **65,** 662 (ab)
—— Mediterranean, in children of non-Mediterranean ancestry (H. K. Silver), 1951, **66,** 681 (ab)
—— pericardial effusion mistaken for cardiac enlargement in severe anemia; 2 cases (L. A. Soloff and C. T. Bello), 1951, **66,** 294 (ab)
—— pernicious; are achlorhydria, achylia gastrica and pernicious anemia precancerous conditions? (F. S. Weinberg), 1952, **67,** 154 (ab)
—— pernicious; gastroscopic observations (L. L. Hardt, S. O. Schwartz and F. Steigmann), 1948, **60,** 717 (ab)
—— pernicious; mortality from and risk of gastric carcinoma among patients (J. Mosbech and A. Bideback), 1951, **66,** 320 (ab)
—— sickle cell (B. Ehrenpreis and H. N. Schwinger), 1952, **68,** *28
—— sickle cell; changes in chest, skull, abdomen, extremities, pelvis and spine (B. Ehrenpreis and H. N. Schwinger), 1952, **68,** *28
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—— sickle cell; collapse of vertebral bodies (W. A. Henkin), 1949, **62,** *395
—— sickle cell, complicating cortical fissuring in osteomyelitis (R. Wigh and H. J. Thompson), 1951, **66,** 1007 (ab)
—— sickle cell, in adults; roentgenographic findings (O. Legant and R. P. Ball), 1950, **63,** 141 (ab)
—— sickle cell; long bone involvement (J. R. Almklov, A. E. Hansen and M. D. Schneider), 1950, **64,** 872 (ab)
—— sickle cell; marked bone changes in case of long standing (I. F. Weil and H. H. Lerner), 1948, **60,** *251
—— sickle cell; radiologic changes (S. H. Macht and P. W. Roman), 1950, **63,** 141 (ab)
—— sickle cell; roentgen findings (D. S. Carroll and J. W. Evans), 1950, **64,** 716 (ab)
—— sickle cell, simulating osteomyelitis (J. Buchman), 1950, **64,** 872 (ab)
—— sickle cell; skeletal changes; unusual case (A. E. Hamburg), 1951, **66,** 996 (ab)
—— splenic; adult Gaucher's disease (A. H. Squires, O. Kofman and J. N. Cunningham), 1950, **64,** 877 (ab)
—— splenic; aseptic necrosis in Gaucher's disease (A. M. Arkin and A. J. Schein), 1949, **62,** 300 (ab)
—— splenic; Gaucher's disease in bone (J. Kulowski), 1950, **63,** *840
—— splenic; hemorrhagic tendency in congestive splenomegaly (Banti's syndrome); mechanism and management (L. M. Tocantins), 1949, **61,** 433 (ab)
—— splenic; Italian viewpoint on Banti's syyndrome (C. Frugoni), 1951, **66,** 498 (ab)
—— splenic; Legg-Perthes' disease: syndrome of many etiologies? Clinical and roentgenographic findings in Gaucher's disease (S. Z. Draznin and K. Singer), 1948, **60,** *490
—— splenic; portography during operation for Banti's syndrome (P. Santy and P. Marion), 1952, **67,** 154 (ab)
—— splenic; sclerosis of bones in Gaucher's disease (F. Windholz and S. E. Foster), 1948, **60,** *246
—— splenic; pulmonary localization in Gaucher's disease (L. Grandmaison), 1951, **66,** 854 (ab)
—— splenic; venous calcification in Banti's syndrome (A. R. Bleich and C. S. Kipen), 1949, **62,** 458 (ab)
Anesthesia, aerosol; new bronchographic technic; further experiences in children and adults (J. B. Miller, N. Dinhoffer and W. H. Conyers, Jr.), 1952, **68,** *229
—— anesthetic management during surgical treatment of pheochromocytoma (V. Apgar and E. M. Papper), 1952, **67,** 676 (ab)
—— differential spinal block; investigation of intestinal dyskinesia, colonic atony and visceral afferent fibers (S. J. Sarnoff, J. G. Arrowood and W. P. Chapman), 1949, **61,** 130 (ab)
—— for bronchography in severely discharging lung (J. E. Lett and M. W. Dietz), 1950, **64,** 322 (ab)
—— gastrointestinal gas during (W. G. Maddock, J. L. Bell and M. J. Tremaine), 1950, **64,** 539 (ab)
—— general, for bronchography in children (G. L. Way and G. C. W. James), 1951, **65,** 648 (ab)
—— inhalation of stomach contents at delivery (A. Willcox), 1950, **63,** 448 (ab)
—— intubation, bronchography with (W. Frommhold), 1952, **68,** 506 (ab)
—— perfecting of technique for instillation of lipiodol for bronchography (J. Pieri and Casalonga), 1950, **64,** 321 (ab)

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—— spinal, air embolism during pneumography of urinary tract (R. Budnick), 1952, **67,** 528 (ab)
—— urethanne (T. Leucutia), 1948, **59,** 421 (E)
Aneurysm, abdominal aorta, ruptures; roentgen diagnosis (C. E. Grayson and B. R. Kennedy), 1951, **65,** 158 (ab)
—— abdominal aorta; translumbar arteriography (P. G. Smith, A. T. Evans, E. C. Elsey and B. Felson), 1952, **67,** *190
—— and mediastinal tumor, differentiation; value of angiocardiography (I. Steinberg and C. T. Dotter), 1950, **63,** 935 (ab)
—— aneurysmal bone cyst (H. L. Jaffe), 1951, **66,** 145 (ab)
—— aortic; angiocardiography (A. Celius, C. R. Pacheco and H. del Castillo), 1951, **66,** 855 (ab)
—— aortic, as diagnosis of syphilitic aortitis (I. Steinberg and others), 1949, **62,** *658
—— aortic, healed dissecting, erroneously diagnosed paramediastinal effusion; death after attempted aspiration (J. C. Smith and S. M. Sancetta), 1951, **65,** 506 (ab)
—— aortic, secondary to coarctation (S. B. Clark and E. C. Koenig), 1949, **61,** 275 (ab)
—— aortic, syphilitic, with rupture into pulmonary artery (A. Klein and W. B. Porter), 1951, **65,** 153 (ab)
—— aortic, true and dissecting; cause of esophageal perforation (B. B. Gay, Jr.), 1952, **68,** *193
—— arteriographic demonstration of spasm of intracranial arteries with special reference to saccular arterial aneurysms (A. Ecker and P. A. Riemenschneider), 1952, **68,** 699 (ab)
—— arteriosclerotic, of descending thoracic aorta presenting to right of spine (B. S. Epstein and R. L. Friedman), 1950, **63,** 767 (ab)
—— arteriosclerotic popliteal; treatment (J. M. Janes and J. C. Ivins), 1952, **67,** 320 (ab)
—— arteriovenous, acute, of right common carotid artery and internal jugular vein (M. Gage), 1951, **65,** 831 (ab)
—— arteriovenous, bilateral congenital; communications of cerebral vessels (R. Jaeger and R. P. Forbes), 1948, **59,** 898 (ab)
—— arteriovenous, cerebral; diagnosis and therapy (G. Weber), 1949, **62,** 280 (ab)
—— arteriovenous, congenital; melorheostosis associated with (R. O. Murray), 1952, **67,** 1025 (ab)
—— arteriovenous, congenital, of lung (A. Grishman, M. H. Poppel, R. S. Simpson and M. L. Sussman), 1949, **62,** *500
—— arteriovenous, congenital, of renal artery (R. Pearse and R. L. MacMillan), 1948, **60,** 152 (ab)
—— arteriovenous, intradural (M. H. Verbiest), 1952, **68,** 989 (ab)
—— arteriovenous, of brain (H. Olivecrona), 1951, **66,** 480 (ab)
—— arteriovenous, of brain; total removal of lesion; 10 cases (G. Norlen), 1950, **64,** 516 (ab)
—— arteriovenous, of great cerebral vein (of Galen) and circle of Willis (E. Boldrey and E. R. Miller), 1950, **64,** 517 (ab)
—— arteriovenous, of lung; case (A. Ettinger, H. Magendantz and E. A. Russo), 1950, **63,** 938 (ab)
—— arteriovenous pulmonary (G. E. Lindskog, A. Liebow, H. Kausel and A. Janzen), 1951, **66,** 856 (ab)
—— arteriovenous pulmonary, symptomless (D. J. Roberts and J. E. Hutchison), 1951, **66,** *743
—— cardiac, and pericardial cysts; differential roentgen diagnosis (W. M. Loehr), 1952, **68,** *600

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—— cardiac calcified (A. Bogoch and E. F. Christopherson), 1950, **64,** 1041 (ab)
—— cardiac; clinical and electrocardiographic analysis (J. B. Moyer and G. I. Hiller), 1952, **67,** 510 (ab)
—— cardiac; diagnosis, roentgenologic methods (E. Lopez and E. G. J. Lopez), 1952, **68,** 1001 (ab)
—— cardiac, in a child of 7 years of age (E. Vivas-Salas), 1948, **60,** 567 (ab)
—— cardiac; roentgenologic observations (W. Hirsch), 1951, **66,** 857 (ab)
—— carotid-cavernous (G. Ruggiero and F. Castellano), 1952, **68,** 1011 (ab)
—— cerebral arteriovenous malformation, arteriography in (R. E. Wise and R. M. Geist, Jr.), 1950, **64,** 675 (ab)
—— cerebral; relation to migraine (K. Frankel), 1950, **64,** 1027 (ab)
—— congenital, of superior vena cava; case with operative correction (O. A. Abbott), 1950, **64,** 1040 (ab)
—— deformity of radium from (E. R. Zaglio and M. H. Harris), 1948, **59,** 458 (ab)
—— dissecting, of aorta; clinical electrocardiographic and laboratory features; 58 autopsied cases (D. C. Levinson, D. T. Edmeades and G. C. Griffith), 1950, **64,** 1038 (ab)
—— dissecting, of aorta with renal complications (H. Brebner), 1952, **67,** 139 (ab)
—— ductus arteriosus; case with postmortem roentgenologic study after instillation of barium paste (J. H. Kneidel), 1949, **62,** *223
—— intracranial arterial; deliberate thrombosis by partial occlusion of carotid artery with arteriographic control (A. Ecker and P. Riemenschneider), 1952, **67,** 504 (ab)
—— intracranial, arteriograms in diagnosis and treatment (J. L. Poppen), 1950, **63,** 433 (ab)
—— intracranial, arteriographic visualization of cerebrovascular lesions (S. R. Govons and F. C. Grant), 1948, **59,** 900 (ab)
—— left ventricle; electrokymographic studies (P. Samet, J. B. Schwedel and H. Mednick), 1951, **65,** 646 (ab)
—— midline calcified intracranial, between occipital lobes; cases (D. Oscherwitz and L. M. Davidoff), 1949, **61,** 263 (ab)
—— multiple mycotic, of branches of pulmonary artery, thromboendarteritis with (C. L. Pirani, F. E. Ewart and A. L. Wilson), 1950, **63,** 441 (ab)
—— of ascending aorta and pericardial cysts; differential roentgen diagnosis (W. M. Loehr), 1952, **68,** *600
—— of first part of left subclavian artery; review of literature and case history (L. J. Temple), 1951, **65,** 153 (ab)
—— of intracranial carotid artery; syndrome of frontal headache with oculomotor nerve paralysis (R. Jaeger), 1950, **63,** 756 (ab)
—— of renal artery; 2 cases and review of literature (B. S. Abeshouse), 1952, **68,** 154 (ab)
—— of thoracic aorta, rupture; case (C. Gottlieb and W. K. Peck), 1950, **63,** *63
—— of wall of heart; roentgenological appearance of calcified myocardial scar (K. Hohenner), 1952, **67,** 862 (ab)
—— pulmonary arteries, multiple; roentgen diagnosis (H. Weise), 1950, **64,** 533 (ab)
—— pulmonary artery, angiocardiography of prominent pulmonary artery segment (J. E. Miller), 1950, **64,** *215
—— pulmonary artery; case (W. J. Clifford, W. F. MacGillivray and R. H. Goodale), 1950, **64,** *414

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—— pulmonary artery, congenital and acquired (H. Schludermann), 1952, **68,** 1011 (ab)
—— pulmonary artery, congenital; diagnosis (C. T. Dotter and I. Steinberg), 1949, **62,** 754 (ab)
—— pulmonary artery; similarity to chronic cor pulmonale; roentgen findings (M. O. Marks and H. A. Zimmerman), 1951, **66,** *26
—— pulmonary artery, with thromboangitis of pulmonary vessels (L. E. Thompson and B. Gerstl), 1948, **59,** 584 (ab)
—— pulmonary; rupture accompanying patent ductus arteriosus in a 67 year old woman (M. C. F. Lindert and H. L. Correll), 1951, **65,** 830 (ab)
—— Rasmussen's, and fatal hemorrhage in pulmonary tuberculosis (V. A. Plessinger and P. N. Jolly), 1950, **64,** 320 (ab)
—— saccular arterial (J. R. Green and R. Arana), 1948, **59,** *627
—— saccular, of sinuses of valsalva of aorta; differential roentgen diagnosis (W. M. Loehr), 1952, **68,** *600
—— splenic artery (T. H. Palmer), 1951, **66,** 678 (ab)
—— splenic artery, ruptured; case (G. W. Zeluff and and V. Parsonnet), 1952, **68,** 315 (ab)
—— splenic artery; 2 cases (B. Sherwin and H. Gordimer), 1951, **65,** 652 (ab)
—— syphilitic, of subclavian artery (R. A. Daniel, Jr.), 1952, **68,** 160 (ab)
—— traumatic, roentgen visualization (H. Angerer and A. Ravelli), 1951, **65,** 152 (ab)
—— true renal-artery; case (R. R. Berneike and H. M. Pollock, Jr.), 1951, **65,** 847 (ab)
—— ventricular, in 29 year old man studied angiocardiographically (C. H. Dolly, C. T. Dotter and I. Steinberg), 1952, **68,** 1000 (ab)
—— visualization, contrast technic; method of simultaneous visualization of aneurysms in two planes (F. M. Seibert), 1952, **67,** 1025 (ab)
—— visualization in diagnosis of cardiovascular lesions (N. E. Freeman and E. R. Miller), 1949, **62,** 770 (ab)
Anex, P.: Two cases of schwannoma of stomach, 1951, **66,** 129 (ab)
Angelman, H., Hall, E. G., and **Spencer, R.:** Syndrome of obstruction of inferior vena cava in childhood, 1951, **66,** 492 (ab)
Anger, H. O.: See **Tobias, C. A.,** jt. auth.
Angerer, H., and **Ravelli, A.:** Roentgen visualization of traumatic aneurysms, 1951, **65,** 152 (ab)
Angevine, D. M.: Pathology of rheumatic disease, 1949, **61,** 436 (ab)
Angina pectoris; hypothyroidism produced by radioactive iodine in treatment of euthyroid patients with (H. L. Blumgart, A. S. Freedberg and G. S. Kurland), 1951, **65,** 673 (ab)
—— pectoris, intractable; treatment with radioactive iodine (A. S. Freedberg, H. L. Blumgart, G. S. Kurland and D. L. Chamovitz), 1951, **66,** 694 (ab)
—— pectoris; roentgen therapy of anginal syndrome (V. L. Love and H. D. Fearon), 1952, **68,** *448
—— pectoris; treatment with roentgen irradiation of adrenals (1937-1947); clinical course of 200 cases (W. Raab), 1950, **63,** *895
Angiocardio-cinematography (R. Janker), 1950, **64,** 904 (ab)
Angiocardiography (C. T. Dotter and I. Steinberg), 1952, **67,** 849 (ab)
—— anatomo-roentgenologic form of transposition of large vessels (scientific exhibit) (A. Castellano and R. Pereiras), 1948, **60,** 557
—— anatomo-roentgenological forms of transposition of great vessels (A. Castellanos, R. Pereiras and O. Garcia), 1950, **64,** *255
—— and planar roentgenography simultaneously (B. Lindemann), 1951, **66,** 124 (ab)
—— and roentgenographic aspects of aberrant insertion of pulmonary veins associated with interatrial septal defect and congenital arteriovenous aneurysm of lung (A. Grishman, M. H. Poppel, R. S. Simpson and M. L. Sussman), 1949, **62,** *500
—— angiocardiograms; roentgen antomy and interpretation (E. Donzelot, R. Heim de Balsac, A. M. Emam-Zade and J. E. Escalle), 1950, **64,** 155 (ab)
—— annals of roentgenology; volume XX (C. T. Dotter and I. Steinberg), 1952, **68,** 476 (bk. rev.)
—— application to diagnosis of coarctation of aorta (B. S. Epstein), 1950, **64,** 1041 (ab)
—— automatic roentgen-ray roll film magazine (C. T. Dotter, I. Steinberg and H. L. Temple), 1949, **62,** *355
—— automatization by tautograph (scientific exhibit) (W. G. Scott and W. D. Moore), 1948, **60,** 550
—— blood pressure changes during (S. Howarth), 1951, **66,** 494 (ab)
—— circulation times (G. C. Sutton, G. E. Wendel, H. E. Grant and E. G. Warnick), 1950, **63,** *186
—— clinical and roentgenological interest (P. Thoyer-Rozat and J. Piequet), 1950, **63,** 130 (ab)
—— death after (C. T. Dotter and F. S. Jackson), 1951, **65,** 660 (ab)
—— demonstration of anomalous pulmonary circulation in aplasia of lung (M. D. Ingram, Jr., G. W. Hudson and T. J. Davis), 1950, **64,** *409
—— development; Carman lecture (W. G. Scott), 1952, **68,** 685 (ab)
—— diagnosis of operability in lung cancer (scientific exhibit) (C. T. Dotter, I. Steinberg and C. Holman), 1949, **62,** 737
—— diagnosis of syphilitic aortitis (I. Steinberg and others), 1949, **62,** *655
—— direct serial roentgenography in two planes simultaneously at 0.08 second intervals (G. Fredzell, J. Lind, E. Ohlson and C. Wegelius), 1950, **63,** *548
—— effect on heart as measured by electrocardiographic alterations (W. J. Zinn, D. C. Levinson, V. Johns and G. C. Griffith), 1952, **67,** 520 (ab)
—— examinations; apparatus for automatic multiple exposures (H. K. Taylor), 1950, **63,** 297 (ab)
—— experiments, by direct puncture of the heart (G. Ragaglini), 1950, **64,** 902 (ab)
—— experiments on pathogenesis of adrenalin pulmonary edema in rabbits (A. Elkeles), 1950, **63,** 147 (ab)
—— findings in 100 consecutive proved cases of lung cancer (I. Steinberg and C. T. Dotter), 1952, **68,** 1006 (ab)
—— full cycle (W. H. Thompson, M. M. Figley and F. J. Hodges), 1950, **64,** 328 (ab)
—— general aspects (instruction course) (J. E. Miller), 1952, **68,** 129
—— in aneurysm of pulmonary artery (C. A. Priviteri and B. B. Gay, Jr.), 1951, **66,** 294 (ab)
—— in artificial pneumothorax (I. Steinberg, H. I. McCoy and C. T. Dotter), 1951, **66,** 857 (ab)
—— in cardiovascular syphilis (G. E. Peabody and others), 1951, **65,** 155 (ab)
—— in congenital aneurysmal dilatation of ascending aorta associated with arachnodactyly (S. Schorr,

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—— in congenital cyanotic heart disease (R. N. Cooley), 1952, **67,** 860 (ab)
—— in congenital heart disease (K. D. Keele), 1950, **63,** 452 (ab)
—— in congenital heart disease (J. A. Brocklebank), 1950, **63,** 453 (ab)
—— in congenital heart disease of cyanotic type (R. N. Cooley, R. D. Sloan, C. R. Hanlon and H. T. Bahnson), 1951, **65,** 831 (ab)
—— in congenital heart disease of cyanotic type with pulmonic stenosis or atresia (R. N. Cooley, H. T. Bahnson and C. R. Hanlon), 1950, **63,** 442 (ab)
—— in infants and children; new technic (J. D. Keith and J. D. Munn), 1951, **66,** 124 (ab)
—— in localization of foreign bodies in the heart (E. M. Goyette and M. M. Keirns), 1952, **68,** 510 (ab)
—— in pulmonary artery obstruction (W. S. Tirman, J. L. Eisaman and J. T. Lloyd), 1952, **67,** 849 (ab)
—— in pulmonary embolism; experimental study (R. P. Lochhead, D. J. Roberts, Jr. and C. T. Dotter), 1952, **68,** *627
—— in thoracic surgery (I. Steinberg, C. T. Dotter and W. DeW. Andrus), 1950, **64,** 686 (ab)
—— in thoracic tumors (A. G. Weiss and others), 1950, **64,** 323 (ab)
—— in tricuspid atresias (M. H. Wittenborg, E. B. D. Neuhauser and W. H. Sprunt), 1951, **66,** *725
—— intracardiac; evaluation (G. C. Sutton, G. Wendel, H. G. Wedell and D. C. Sutton), 1952, **67,** *596
—— measurement of normal great vessels (C. T. Dotter and I. Steinberg), 1950, **63,** 443 (ab)
—— measurements of aortic length (C. T. Dotter, D. J. Roberts, Jr. and I. Steinberg), 1951, **66,** 851 (ab)
—— multiple exposures; simple manual cassette changer (A. D. Kistin), 1951, **65,** *615
—— observations in some correctible types of congenital cardiovascular disease (M. M. Figley, A. M. Stern, J. L. Wilson and F. J. Hodges), 1952, **68,** 999 (ab)
—— observations of patient with primary hemangiosarcoma of pericardium (J. DeCarlo, Jr. and J. M. N. Lindquist), 1950, **63,** *360
—— of congenital cardiac anomalies; newer methods (A. Cournand), 1952, **67,** 519 (ab)
—— of mediastinal tumors, with special reference to aortic aneurysms (A. Celius, C. R. Pacheco and H. del Castillo), 1951, **66,** 855 (ab)
—— of prominent pulmonary artery segment (J. E. Miller), 1950, **64,** *214
—— of pulmonary artery (scientific exhibit) (J. E. Miller), 1949, **62,** 737
—— of pulmonary neoplasms; differential diagnosis (H. Neuhof, M. L. Sussman and R. A. Nabatoff), 1950, **63,** 452 (ab)
—— of pulmonary stenosis (M. J. Carson, T. H. Burford, W. G. Scott and J. Goodfriend), 1949, **62,** 591 (ab)
—— photofluorographic method (scientific exhibit) (H. L. Temple, I. Steinberg and C. T. Dotter), 1948, **60,** 555
—— problems (R. H. Morgan), 1950, **64,** *189
—— pulmonary; further observations on diagnostic value in bronchiogenic carcinoma (D. J. Schissel and P. G. Keil), 1952, **67,** *51
—— rapid cassette changer (M. A. Sisson), 1950, **63,** 466 (ab)
—— role in mediastinal and paramediastinal lesions (A. A. Osler, W. A. Hopkins and T. F. Leigh), 1950, **64,** 534 (ab)

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—— routine, table for; synchronous serial roentgenography in 2 planes at right angles (O. Axen and J. Lind), 1951, **65,** 678 (ab)
—— selective (G. Tori), 1952, **68,** 511 (ab)
—— selective visualization in (G. Jönsson), 1952, **68,** 999 (ab)
—— study of 53 consecutive proved cases of lung cancer (C. T. Dotter, I. Steinberg and C. W. Holman), 1950, **64,** *222
—— study of innominate artery (E. I. Honig, I. Steinberg and C. T. Dotter), 1952, **68,** 1011 (ab)
—— study of superior vena cava and innominate veins (D. J. Roberts, C. T. Dotter and I. Steinberg), 1951, **66,** *341
—— study of ventricular aneurysm in 29 year old man (C. H. Dolly, C. T. Dotter and I. Steinberg), 1952, **68,** 1000 (ab)
—— technic and interpretation (instruction course) (M. L. Sussman), 1949, **62,** 139
—— technical apparatus; indications and contraindications (S. Buchs and G. Frommherz), 1951, **65,** 340 (ab)
—— use in diagnosis of congenital cardiovascular malformations (instruction course), (R. N. Cooley), 1952, **68,** 128
—— use of 9½ inch roll film cassette with conventional spot-filming fluroscopic tables (J. H. Wentworth), 1952, **68,** 865 (ab)
—— utilizing photoroentgen apparatus with a rapid film changer (H. L. Temple, I. Steinberg and C. T. Dotter), 1948, **60,** *646
—— value in differentiation of mediastinal tumor and aneurysm (I. Steinberg and C. T. Dotter), 1950, **63,** 935 (ab)
—— value in establishing diagnosis of pericarditis with effusion (R. G. Williams and I. Steinberg), 1949, **61,** *41
—— visualization of coronary circulation during (A. J. Gordon, S. A. Brahms and M. L. Sussman), 1950, **64,** 686 (ab)

Angiocardiopneumography (L. de Carvalho), 1950, **64,** 684 (ab)
—— in diagnosis of lung and mediastinal tumors (M. Battezzati, F. Soave and A. Tagliaferro), 1951, **65,** 974 (ab)

Angiofibroma, juvenile nasopharyngeal (H. Martin, H. E. Ehrlich and J. C. Abels), 1948, **60,** 700 (ab)

Angiograms, normal cardiovascular; interpretation; discussion of common errors (M. L. Sussman and S. A. Brahms), 1951, **66,** *29
—— normal cerebral (R. W. Curry and G. G. Culbreth), 1951, **65,** *345
—— serial; arteriography of extremities; technic (G. Wentzlik), 1952, **68,** 699 (ab)

Angiography (C. Dotter, I. Steinberg and R. P. Ball), 1952, **67,** 685 (ab)
—— and pathological anatomy of intracranial vascular anomalies (O. Sugar), 1951, **66,** 834 (ab)
—— angiographic anatomy (J. R. Green and R. Arana), 1948, **59,** *617
—— angiographic aspects and some therapeutic considerations regarding thrombosis of carotid arteries and other obstructions of intracranial vessels (A. Lima), 1950, **63,** 437 (ab)
—— biplane stereoscopic angiographic unit (scientific exhibit) (W. E. Chamberlain, H. M. Stauffer and A. W. Blackstone), 1951, **66,** 821
—— cardiovascular; development of tautograph and advantages of automatization (W. G. Scott and S. Moore), 1949, **62,** *33

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—— cardiovascular, developments (scientific exhibit) (W. G. Scott, W. A. Simril and W. B. Seaman), 1950, **64,** 849
—— carotid; topographic and histologic diagnosis of cerebral tumors (J. Bonnal and F. Santamaria), 1952, **68,** 989 (ab)
—— cerebral (J. F. Roach), 1951, **65,** 496 (ab)
—— cerebral (C. F. List), 1951, **66,** 482 (ab)
—— cerebral (J. B. Curtis), 1952, **67,** 500 (ab)
—— cerebral (A. Uihlein), 1952, **67,** 500 (ab)
—— cerebral (instruction course) (P. J. Hodes and J. W. Hope), 1950, **64,** 135
—— cerebral; additional approach to internal carotid artery (A. Ecker and R. H. Chamberlain), 1948, **60,** 143 (ab)
—— cerebral; clinical evaluation based on 107 cases (J. R. Green and R. Arana), 1948, **59,** *617
—— cerebral; developments (scientific exhibit) (W. G. Scott, W. A. Simril and W. B. Seaman), 1950, **64,** 849
—— cerebral; differential diagnosis of intracranial neoplasms (C. F. List and F. J. Hodges), 1949, **61,** 265 (ab)
—— cerebral, direct percutaneous; technic (E. Lindgren), 1949, **61,** 266 (ab)
—— cerebral; experimental evaluation (G. A. Smith and others), 1952, **68,** 866 (ab)
—— cerebral; experimental evaluation of certain contrast media; electroencephalographic and histopathological correlations (B. M. Bloor, F. R. Wrenn, Jr. and G. Margolis), 1952, **68,** 866 (ab)
—— cerebral; experimental method for evaluation of contrast media (B. M. Bloor, F. R. Wrenn, Jr. and G. J. Hayes), 1952, **68,** 342 (ab)
—— cerebral; experimental study of contrast media with reference to possible injurious effects on cerebral blood vessels (T. Broman and O. Olsson), 1950, **63,** 434 (ab)
—— cerebral, in abscess of temporal lobe (P. H. Schurr), 1952, **68,** 487 (ab)
—— cerebral, in "brain tumor suspects" (G. G. Culbreth, A. E. Walker and R. W. Curry), 1950, **64,** 1027 (ab)
—— cerebral, in brain tumors (instruction course) (P. J. Hodes), 1952, **68,** 128
—— cerebral, in diagnosis of intracranial hematomas (K. Kristiansen), 1950, **63,** 757 (ab)
—— cerebral; injuries from contrast media (T. Broman, B. Forssman and O. Olsson), 1951, **66,** 333 (ab)
—— cerebral; normal and abnormal (instruction course) (H. O. Peterson), 1951, **66,** 273; 1952, **68,** 130
—— cerebral, percutaneous; improved technic (D. C. Donald, Jr., K. F. Kesmodel, Jr., S. L. Rollins, Jr. and R. M. Paddison), 1952, **67,** 503 (ab)
—— cerebral; percutaneous method (J. R. Green and R. Arana), 1948, **59,** *623
—— cerebral, recorded cinefluorographically (H. Gass and others), 1950, **64,** 1027 (ab)
—— cerebral; review (J. W. D. Bull), 1950, **64,** 513 (ab)
—— cerebral; roentgen technic (B. Kuss), 1952, **67,** 838 (ab)
—— cerebral; serialographic technic (L. S. Rosenberg and J. R. Simpson), 1951, **65,** 682 (ab)
—— cerebral; technic using dilute diodrast (F. D. Ingraham and C. A. Cobb, Jr.), 1948, **60,** 140 (ab)
—— cerebral; technical improvements (A. Engeset and H. Kvadsheim), 1949, **61,** 426 (ab)
—— cerebral; time factor, and an automatic seriograph (J. M. Sanchez-Perez and R. A. Carter), 1949, **62,** *509

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—— cerebral; time factor; Sanchez-Perez automatic cranial seriograph (scientific exhibit) (J. M. Sanchez-Perez), 1948, **60,** 550
—— cerebral; transient hemiplegia associated with (J. G. Chusid, F. Robinson and M. P. Margules-Lavergne), 1950, **64,** 515 (ab)
—— cerebral; untoward effects, 1952, **68,** 462 (E)
—— cerebral; use of neo-iopax; complications (L. A. French and P. S. Blake), 1950, **64,** *816
—— cerebral, with rapid serialized x-ray exposures on roll film 9½ inches wide (W. G. Scott and W. B. Seaman), 1951, **66,** 835 (ab)
—— cinefluorographic; changes in configuration of ventricular chambers during cardiac cycle (in dogs) (R. F. Rushmer and D. K. Crystal), 1952, **68,** 145 (ab)
—— complication (R. Dunsmore, W. B. Scoville and B. B. Whitcomb), 1951, **66,** 836 (ab)
—— contrast; improved vertical and horizontal multiple cassette changers (J. A. Campbell and P. B. Lockhart), 1951, **65,** 340 (ab)
—— contrast; rapid sequence cassette changers; improved single and bi-plane multiple cassette changers (scientific exhibit) (J. A. Campbell and P. O. Patterson), 1952, **68,** 827
—— devices for; review of literature (S. Fineman), 1949, **61,** *325
—— hepatic; visualization of portal syystem; experimental investigations (S. Abeatici and L. Campi), 1952, **68,** 697 (ab)
—— in evaluation of intracranial trauma (scientific exhibit) (J. E. Lofstrom, J. E. Webster and E. S. Gurdjian), 1952, **68,** 823
—— in post-traumatic intracranial hemorrhages (I. Wickbom), 1950, **63,** 756 (ab)
—— intracranial (instruction course) (F. J. Hodges), 1948, **60,** 129; 1949, **62,** 143
—— intracranial, serialograph for (S. Fineman), 1949, **61,** *324
—— intracranial; seriograph (scientific exhibit) (S. Fineman), 1948, **60,** 555
—— of an anatomic variation in position of transverse dural sinuses (B. S. Epstein), 1952, **68,** 488 (ab)
—— of brain revascularization after carotid-jugular anastomosis (I. M. Tarlov and others), 1951, **66,** 835 (ab)
—— of pulmonary arterial circulation in segmental disturbances of aeration (L. Stuhl, P. Y. Hatt and J. Sebillotte), 1952, **67,** 508 (ab)
—— of spontaneous thrombosis of internal and common carotid arteries (H. C. Johnson and A. E. Walker), 1952, **68,** 698 (ab)
—— of pulmonary arteriovenous fistula (C. E. Duisenberg and L. Arismendi), 1950, **63,** 938 (ab)
—— of transposition of great vessels in newborn infant (H. Abramson), 1951, **65,** 978 (ab)
—— percutaneous carotid; complication (H. Idbohrn), 1952, **68,** 160 (ab)
—— percutaneous carotid; diagnostic value (K. Koppang), 1952, **67,** 176 (ab)
—— percutaneous, of vertebral artery (E. Lindgren), 1951, **65,** 661 (ab)
—— portable cassette changer (G. J. Baron), 1952, **68,** 168 (ab)
—— procedures in diagnosis of congenital heart disease (instruction course) (W. G. Scott), 1949, **62,** 145
—— pulmonary, and bronchography as aid in planning surgical treatment of pulmonary tuberculosis (J. Gordon, W. B. Zinn, R. Brook and P. C. Pratt), 1952, **68,** 142 (ab)

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—— pulmonaryy artery (C. T. Dotter and I. Steinberg), 1949, **62,** 285 (ab)
—— pulmonary; diagnostic value in bronchiogenic carcinoma (D. J. Schissel and P. G. Keil), 1952, **67,** *51
—— pulmonary, in differential diagnosis of unresolved pneumonia and bronchiogenic carcinoma (P. G. Keil and D. J. Schissel), 1951, **64,** 827 (ab)
—— serial angiographic technics (scientific exhibit) (C. T. Dotter and I. Steinberg), 1951, **66,** 822
—— serial, for diagnosis of space occupying intracranial lesions (H. C. Voris), 1952, **67,** *360
—— serialographic, technic (S. Fineman), 1949, **61,** *333
—— study of form and function of remaining lung after pneumonectomy (H. Neuhof and R. A. Nabatoff), 1949, **62,** 754 (ab)
—— traumatic intracranial hemorrhage diagnosed by (J. E. Webster, R. Dawson and E. S. Gurdjian), 1952, **67,** 843 (ab)
—— vertebral (O. Sugar, L. B. Holden and C. B. Powell), 1949, **61,** *166
Angioma, encephalotrigeminal angiomatosis (Sturge-Weber syndrome); roentgenological aspects before and after neurosurgery (J. R. Green, J. Foster and D. L. Berens), 1950, **64,** *391
—— hemorrhagic familial angiomatosis; treatment, radiotherapy (J. Pierquin, G. Richard and B. Pierquin), 1952, **67,** 696 (ab)
—— intracranial; diagnosis by cerebral angiography (C. F. List and F. J. Hodges), 1949, **61,** 265 (ab)
—— of petrous portion of temporal bone; roentgen appearance (H. Beau, L. Rouquès and P. L. Gérard), 1951, **66,** 286 (ab)
—— subarachnoid cervical, with cutaneous hemangioma of a corresponding metamere (G. O. Cross), 1948, **60,** 580 (ab)
—— treatment of certain giant angiomas (E. Daubresse), 1950, **64,** 184 (ab)
—— treatment; summary of 20 years experience at Columbia Presbyterian Medical Center (G. C. Andrews, A. N. Domonkos and C. F. Post), 1952, **67,** *273
—— vertebral (J. Haguenau and C. Faure), 1951, **65,** 657 (ab)
Angiopneumography, excluded lung; syndrome due to amputation of pulmonary artery (M. Bariety, O. Monod, P. Choubrac and P. Joly), 1952, **67,** 847 (ab)
Angiopulmography (P. T. Andersen and others), 1952, **68,** 506 (ab)
Angiosarcoma (W. D. McCarthy and G. T. Pack), 1951, **66,** 513 (ab)
—— of colon; case (C. A. Steiner and L. H. Palmer), 1950, **64,** 165 (ab)
—— primary, of heart (H. S. Tacket, R. S. Jones and J. W. Kyle), 1951, **65,** 979 (ab)
Anglem, T. J.: See **Lemon, H. M.,** jt. auth.
Angrist, A. A., Schwarz, A. W., Brodie, S. S., and **Shapiro, A. J.:** Study of early phases of calcification in bone with radioactive phosphorus, 1952, **68,** 854 (ab)
—— See **Stoll, R.,** jt. auth.
Anhidrosis: See Sweat Glands
Animals: See also Cats; Cattle; Dogs; Guinea Pigs; Mice; Monkeys; Rabbits; etc.
—— distribution of organisms containing radioiodine in; studies on metabolism of radioisotopes by various fungi and bacteria (I. A. Pearson, J. M. Hammer, K. E. Corrigan and H. S. Hayden), 1949, **61,** *839
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—— effect of decreasing the amount of lung tissue on right ventricular pressures (R. F. Carlson, B. C. Charbon, H. G. A. Charbon and W. E. Adams), 1952, **68,** 343 (ab)
—— effects of total surface beta irradiation (J. R. Raper), 1949, **61,** 585 (ab)
—— experimental procedures for simultaneous exposure of large numbers of animals to total body x-radiation (W. H. Chapman, E. P. Cronkite, F. W. Chambers, Jr. and J. E. Morgan), 1952, **68,** 170 (ab)
—— hematological effects of ionizing radiations in tolerance range (L. O. Jacobson and E. K. Marks), 1949, **61,** 590 (ab)
—— histological changes after radiation exposures (W. Bloom), 1949, **61,** 885 (ab)
—— influence of pressure and tension on growing bone (H. Gelbke), 1952, **68,** 544 (ab)
—— laboratory; clinical and pathologic effects of nitrogen and sulfur mustards on (I. Graef and others), 1948, **60,** 861 (ab)
—— physiological effects of ionizing radiation; clinical sequence (C. L. Prosser), 1949, **61,** 882 (ab)
—— reparative osteogenesis of fracture in animals with hypoparathyroidism treated with vitamin D_2 (F. Cozza), 1950, **64,** 557 (ab)
—— roentgen irradiated; disappearance rate of tagged substances from circulation (L. Wish, J. Furth, C. W. Sheppard and R. H. Storey), 1952, **67,** *628
—— role of vertebral venous system in metastasis of cancer to spinal column (D. R. Coman and R. P. De Long), 1952, **67,** 713 (ab)
—— tissue localization and excretion routes of radioactive diethylstilbestrol (G. H. Twombly and E. F. Schoenewaldt), 1952, **67,** 701 (ab)
—— whole body irradiation, cataract after (T. Leucutia), 1952, **67,** 998 (E)
—— whole body neutron irradiation, injurious effects (T. Leucutia), 1948, **59,** 133 (E)
—— wild; histomorphology and function of thyroid (W. Eickhoff), 1950, **64,** 506 (bk. rev.)
Ankle: See also Astragalus; Foot; Tarsus
—— footballer's (T. P. McMurray), 1950, **64,** 864 (ab)
—— fractures caused by parachute jumping (R. Ciccone and R. M. Richman), 1948, **60,** 284 (ab)
—— fractures, ligamentous; diagnosis and treatment (N. Lauge-Hansen), 1950, **64,** 865 (ab)
—— fractures; post-traumatic aseptic necrosis of distal tibial epiphysis; case (R. S. Siffert and A. M. Arkin), 1951, **66,** 144 (ab)
—— lateral ligaments, injuries; clinical and experimental study (M. H. Leonard), 1950, **63,** 598 (ab)
—— metastatic adenocarcinoma of talus from rectosigmoid region (E. W. Johnson and J. M. Janes), 1949, **62,** 768 (ab)
—— myxochondrosarcoma of talus (H. P. Longstreth, P. Blanco and S. Sanes), 1949, **62,** 307 (ab)
—— osteochondritis dissecans (C. E. Vaughan and J. G. Stapleton), 1949, **61,** 435 (ab)
—— osteochondritis dissecans of talus (R. B. Ray and E. J. Coughlin), 1948, **59,** 763 (ab)
—— rocker foot due to congenital subluxation of talus (F. W. Hark), 1951, **65,** 312 (ab)
—— strains (C. Somerville-Large), 1951, **65,** 308 (ab)
—— transcervical fractures of talus, malacia in (W. J. Cosgrove), 1950, **63,** *363
—— traumatic instability (O. C. Kestler), 1948, **60,** *498
—— unusual lesion of talus occurring in leprosy (P. T. Erickson and A. Mayoral), 1951, **65,** 312 (ab)
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of cancer of tongue (H. B. Elkins), 1952, **68,** *86
—— spondylarthritis anchylopoetica (M. Felländer), 1952, **68,** 845 (ab)
—— vertebral, in tuberculous spines; formation and significance (J. P. Guri), 1948, **59,** 466 (ab)
Anlyan, A. J., Lovingood, C. G., and **Klassen, K. P.:** Primary lymphosarcoma of lung; case, 1951, **65,** 505 (ab)
—— See **Bigelow, R. R.,** jt. auth.
Anomalies: See Abnormalities and Deformities
Anoxia, anoxic; protection action against total body roentgen irradiation of mammals (A. H. Dowdy, L. R. Bennett and S. M. Chastain), 1951, **66,** 700 (ab)
—— cardiac; interarterial coronary anastomoses in human heart, with particular reference to anemia (P. M. Zoll, S. Wessler and M. J. Schlesinger), 1952, **68,** 1002 (ab)
—— increased radioresistance of red bone marrow after (J. A. Schack and R. C. MacDuffee), 1950, **64,** 373 (ab)
Anselem, A.: See **de la Pena, A.,** jt. auth.
Ansell, M. B., and **Rotblat, J.:** Radioactive iodine as diagnostic aid for intrathoracic goitre, 1950, **63,** 961 (ab)
Anthony, D. H., and **Fisher, D. F.:** Evaluation of x-ray diagnosis in ophthalmology, rhinology and otolaryngology, 1948, **60,** 699 (ab)
Anthracosilicosis: See also Pneumoconiosis; Silicosis
—— (W. J. Corcoran), 1949, **62,** 447 (ab)
—— tuberculosis in (P. A. Theodos and B. Gordon), 1952, **68,** 1005 (ab)
Anthropology: See Races
Anthropometry: See also Body; Children; Craniometry; Pelvimetry; etc.
—— importance of relation between anthropometric index and transverse cardiac diameter for appraising the size of the heart (G. Esguerra Gomez), 1952, **68,** 498 (ab)
Antibiotics, monilial infections complicating therapeutic use (J. W. Woods, I. H. Manning and C. N. Patterson), 1951, **66,** 852 (ab)
—— steatorrhea after use (R. R. Merliss and A. Hoffman), 1952, **68,** 150 (ab)
—— treatment of cerebellar abscess (J. Pennybacker), 1948, **60,** 850 (ab)
—— treatment; reduction of mortality from x-radiation (C. P. Miller, C. W. Hammond and M. Tompkins), 1951, **66,** 155 (ab)
Antistreptolysins, increased titer in erythema multiforme exudativum and pneumonia (O. Selvaag), 1950, **63,** 940 (ab)
Antonetti Muniz, C.: See **Usategui, A.,** jt. auth.
Antoni, N., and **Lindgren, E.:** Steno's experiment in man as complication in lumbar aortography, 1950, **64,** 717 (ab)
Antopol, W., and **Goldman, L.:** Sub-epithelial hemorrhage of renal pelvis simulating neoplasm, 1949, **61,** 131 (ab)
Antrum: See Maxillary Sinus
ANTU: See Naphthyl Thiourea
Anuria: See Urination
Anus, cancer, basal cell (B. D. Lott and C. M. Alexander), 1950, **64,** 361 (ab)
—— cancer; radiotherapeutic eradication with surgical repair (H. B. Hunt and D. H. Breit), 1948, **59,** *245
—— cancer; statistics of Fondation Curie, Paris (J. L. Roux-Berger and A. Ennuyer), 1948, **60,** *807
—— cancer; treatment with fast neutrons; survival time
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(Janeway lecture) (R. S. Stone), 1948, **59,** *781
—— imperforate, and rectourethral fistula in 27 year old man; case (J. J. Duffy), 1952, **67,** 167 (ab)
—— imperforate; case series and preliminary report on 1-stage abdominoperineal operation (W. J. Norris, T. W. Brophy and D. Brayton), 1950, **63,** 773 (ab)
—— lymphoid polyps and malignant lymphoma (E. B. Helwig and J. Hansen), 1952, **67,** 161 (ab)
Anzilotti, A.: Clinical indications, results and technique of functional irradiation of the diencephalic hypophyseal region, 1950, **64,** 884 (ab)
—— Leucoplakia of oral cavity, 1951, **65,** 824 (ab)
Aorta, abdominal; aortography (J. A. Helmsworth, J. McGuire and B. Felson), 1950, **64,** *205
—— abdominal aortography in Leriche syndrome (D. Shapiro), 1952, **67,** *894
—— abdominal; chronic obstruction: Leriche's syndrome (B. Milanes, E. P. Stables and J. S. Lastra), 1951, **66,** 1010 (ab)
—— abdominal; congenital coarctation; theoretically reversible type of cardiac disease (B. Kondo, T. Winsor, B. O. Raulston and D. Kuroiwa), 1950, **64,** 1041 (ab)
—— abdominal; radiological studies in individuals over 50 as aid to differential diagnosis between benign and malignant ulceration of stomach (A. Elkeles), 1950, **64,** 332 (ab)
—— abdominal; thrombotic obliteration: Leriche syndrome, 1950, **64,** 496 (E)
—— abdominal; visualization of/and its branches after intravenous injection of contract medium (T. F. Leigh and J. V. Rogers, Jr.), 1950, **64,** *945
—— air for contrast visualization; Valsalva maneuver (N. E. Freeman, T. M. Fullenlove, E. J. Wylie and R. S. Gilfillan), 1950, **64,** 530 (ab)
—— and its branches, visualization by retroarterial diodrast injection (T. H. Burford and M. J. Carson), 1949, **62,** 755 (ab)
—— and pulmonary artery, transposition (M. Campbell and S. Suzman), 1952, **68,** 496 (ab)
—— aneurysm, dissecting; clinical, electrocardiographic and laboratory features; 58 autopsied cases (D. C. Levinson, D. T. Edmeades and G. C. Griffith), 1950, **64,** 1038 (ab)
—— aneurysm, dissecting, with renal complications (H. Brebner), 1952, **67,** 139 (ab)
—— aneurysm, healed dissecting erroneously diagnosed paramediastinal effusion; death following attempted aspiration (J. C. Smith and S. M. Sancetta), 1951, **65,** 506 (ab)
—— aneurysm secondary to coarctation (S. B. Clark and E. C. Koenig), 1949, **61,** 275 (ab)
—— aneurysm, syphilitic, with rupture into pulmonary artery (A. Klein and W. B. Porter), 1951, **65,** 153 (ab)
—— aneurysms, aortic; angiocardiography (A. Celius, C. R. Pacheco and H. del Castillo), 1951, **66,** 855 (ab)
—— aneurysms in diagnosis of syphilitic aortitis (I. Steinberg and others), 1949, **62,** *658
—— aneurysms, true and dissecting, as cause of esophageal perforation (B. B. Gay, Jr.), 1952, **68,** *193
—— angiocardiographic measurement of normal great vessels (C. T. Dotter and I. Steinberg), 1950, **63,** 443 (ab)
—— anomalies; development and position (H. Franke), 1951, **66,** 125 (ab)
—— anomalies; double aortic arch (J. F. Nuboer), 1952, **68,** 144 (ab)

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—— anomalies; double arch; unusual variant (M. Lubert, H. C. Epstein, H. Mendelsohn and S. O. Freedlander), 1952, **67,** *763
—— anomalies; tracheo-esophageal constriction produced by right aortic arch and left ligamentum arteriosum (E. B. D. Neuhauser), 1949, **62,** *493
—— aortic pulmonary anastomosis in congenital pulmonary stenosis (W. J. Potts and S. Gibson), 1949, **62,** 907 (ab)
—— aortic rings; diagnosis and treatment (F. M. Sones, Jr. and D. B. Effler), 1952, **68,** 507 (ab)
—— aortography; development (W. G. Scott), 1952, **67,** 685 (ab)
—— arch, and its branches; anomalies (scientific exhibit) (J. E. Edwards), 1948, **60,** 553
—— arch, and its branches; congenital anomalies (J. Apley), 1950, **64,** 531 (ab)
—— arch, anomalies; surgical significance (R. E. Gross and P. F. Ware), 1948, **59,** 449 (ab)
—— arch anomalies (scientific exhibit) (D. R. Harrington and H. M. Stauffer), 1950, **64,** 849
—— arch, right-sided (P. Samel and D. J. Stone), 1952, **67,** 138 (ab)
—— arteriography of its branches; use of polyethylene catheter (J. A. Helmsworth, J. McGuire and B. Felson), 1950, **64,** *196
—— ascending; aneurysm and pericardial cyst; differential roentgen diagnosis (W. M. Loehr), 1952, **68,** *600
—— ascending, calcification; diagnostic of syphilitic aortitis (I. Steinberg and others), 1949, **62,** *657
—— ascending, calcification; diagnostic sign of syphilitic aortitis (A. Elkeles), 1950, **64,** 532 (ab)
—— ascending, calcifications (J. Lenegre, P. Kilaidonis and J. de Brux), 1949, **62,** 153 (ab)
—— ascending; congenital aneurysmal dilatation associated with arachnodactyly; angiocardiographic study (S. Schoor, K. Braun and J. Wildman), 1952, **68,** 507 (ab)
—— ascending, left, with right arch and right descending aorta (H. L. Abrams), 1952, **68,** 144 (ab)
—— bifurcation, chronic occlusion (A. B. Ortner and R. A. Griswold), 1951, **66,** 494 (ab)
—— chronic aorto-iliac thrombosis (Leriche's syndrome); aortographic examination (E. S. Mazzei, F. Schaposnik, R. R. Reca and D. Grinfeld), 1951, **66,** 148 (ab)
—— coarctation (M. J. Carson and T. H. Burford), 1948, **60,** 707 (ab)
—— coarctation (H. D. Adams, D. I. Rutledge and C. R. Souders), 1949, **62,** 755 (ab)
—— coarctation (J. H. Smitham), 1950, **64,** 532 (ab)
—— coarctation, adult type, with rupture distal to the coarctation (N. E. France, B. Levin and B. McNicholl), 1951, **65,** 830 (ab)
—— coarctation at level of diaphragm (C. B. Olim), 1950, **64,** 534 (ab)
—— coarctation; diagnosis, angiocardiography (B. S. Epstein), 1950, **64,** 1041 (ab)
—— coarctation; diagnosis by direct aortography (W. H. Muller, Jr. and R. H. Sloan), 1951, **65,** 830 (ab)
—— coarctation; diagnosis by retrograde arteriography (N. E. Freeman, E. R. Miller, H. B. Stephens and M. B. Olney), 1951, **65,** 508 (ab)
—— coarctation; diagnosis by retrograde aortography: new direct sign (R. Pereiras and A. Castellanos), 1950, **64,** 534 (ab)
—— coarctation; dilatation and pulsation of left subclavian artery in roentgen ray diagnosis (H. M. Stauffer and L. G. Rigler), 1950, **64,** 687 (ab)

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—— coarctation; electrokymographical studies (S. R. Kjellberg and U. Rudhe), 1951, **66,** 294 (ab)
—— coarctation; relationship of clinical results to cardiovascular dynamics studied before, during and after surgical treatment (G. A. Hallenbeck, E. H. Wood, H. B. Burchell and O. T. Clagett), 1951, **66,** 856 (ab)
—— coarctation, sequelae: hypertension (R. E. Gross and P. F. Ware), 1948, **59,** 449 (ab)
—— coarctation; study of 70 cases in which surgical exploration was performed (O. T. Clagett and R. W. Jampolis), 1952, **68,** 496 (ab)
—— coarctation; surgical treatment (R. E. Gross), 1949, **61,** 123 (ab); 1949, **62,** 755 (ab); 1950, **64,** 533 (ab)
—— coarctation, with patent ductus arteriosus; 2 cases studied before and after surgical treatment (B. E. Taylor and others), 1951, **65,** 154 (ab)
—— congenital diseases (instruction course) (J. E. Edwards), 1951, **66,** 265
—— descending, and position of aortic arch; roentgenologic signs in childhood (R. Ash), 1952, **67,** *924
—— descending; anomalous origin of right subclavian artery (W. C. Sealy), 1952, **67,** 148 (ab)
—— dextroposition; roentgen diagnosis (G. W. Henry), 1952, **68,** *386
—— dilatation diagnostic of syphilitic aortitis (I. Steinberg and others), 1949, **62,** *656
—— dilatation distal to area of coarctation; occurrence and diagnosis (F. G. Fleischner), 1949, **61,** *199
—— isthmus of; stenosis (A. Vogt), 1952, **67,** 148 (ab)
—— left aortic arch with right descending aorta: new anomaly (R. N. Paul), 1948, **60,** 566 (ab)
—— length; angiocardiographic measurements (C. T. Dotter, D. J. Roberts, Jr. and I. Steinberg), 1951, **66,** 851 (ab)
—— para-aortic hypertranslucencies; stratigraphic studies (G. Torelli), 1952, **68,** 508 (ab)
—— percutaneous retrograde catheterization; aortography and renal arteriography after (B. S. Abeshouse, I. Scherlis, M. Golden and M. Rubin), 1952, **68,** 528 (ab)
—— retrograde or counter-current aortography (A. Castellanos and R. Pereiras), 1950, **63,** *559
—— septum, defect; diagnosis by retrograde aortography (B. M. Gasul, E. H. Fell and R. Casas), 1952, **68,** 144 (ab)
—— sinuses of Valsalva, saccular aneurysm and pericardial cysts; differential roentgen diagnosis (W. M. Loehr), 1952, **68,** *600
—— thoracic; bullet embolus to left femoral artery after thoracic gunshot wound (J. L. Keeley), 1952, **67,** 1026 (ab)
—— thoracic, descending; arteriosclerotic aneurysm presenting to right of spine (B. S. Epstein and R. L. Friedman), 1950, **63,** 767 (ab)
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—— pulmonary, abnormal; intralobar sequestration of lung associated with (C. McDowell, D. Robb, J. R. Hinds and R. Nicks), 1952, **67,** 861 (ab)
—— pulmonary, abnormal left; mutual compression of right main bronchus as causes of death of 7 week old child (S. Quist-Hanssen), 1950, **63,** 449 (ab)
—— pulmonary, amputation: excluded lung; angiopneumography (M. Bariety, O. Monod, P. Choubrac and P. Joly), 1952, **67,** 847 (ab)
—— pulmonary, and aorta, transposition (M. Campbell and S. Suzman), 1952, **68,** 496 (ab)
—— pulmonary; angiocardiographic studies (scientific exhibit) (J. E. Miller), 1949, **62,** 737
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—— pulmonary; angiographic study (C. T. Dotter and I. Steinberg), 1949, **62,** 285 (ab)
—— pulmonary, anomalous, associated with congenital pulmonary abnormality (A. Bruwer, O. T. Clagett and J. R. McDonald), 1951, **65,** 828 (ab)
—— pulmonary aortic, in congenital pulmonary stenosis (W. J. Potts and S. Gibson), 1949, **62,** 907 (ab)
—— pulmonary, arteriovenous fistula of lung, 1952, **67,** 478 (E)
—— pulmonary; Ayerza's disease and primary pulmonary arteriosclerosis; congenital dilatation of pulmonary arterial tree (M. M. A. Gold), 1948, **59,** 148 (ab)
—— pulmonary, branches; thromboendarteritis with multiple mycotic aneurysms (C. L. Pirani, F. E. Ewart and A. L. Wilson), 1950, **63,** 441 (ab)
—— pulmonary; bronchial factor in cardiac cyanotics of Ayerza's disease (M. R. Castex, E. L. Capdehourat and E. S. Mazzei), 1950, **63,** 440 (ab)
—— pulmonary; congenital and acquired aneurysms (H. Schludermann), 1952, **68,** 1011 (ab)
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—— pulmonary, in bronchiectasis (W. G. Gobbel, Jr., J. Gordon and G. J. Digman), 1952, **67,** 516 (ab)
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—— subclavian, right anomalous (B. Felson, S. Cohen, S. R. Courter and J. McGuire), 1951, **65,** 153 (ab)
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—— cerebral, in subarachnoid hemorrhage (S. Wechsler and S. W. Gross), 1949, **61,** 426 (ab)
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—— deliberate thrombosis of intracranial arterial aneurysm by partial occlusion of carotid artery with arteriographic control; case (A. Ecker and P. Riemenschneider), 1952, **67,** 504 (ab)
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—— percutaneous vertebral (D. Sutton and R. D. Hoare), 1952, **68,** 698 (ab)
—— pulmonary; diagnostic value in bronchial cancer (P. G. Keil, C. A. Voelker and D. J. Schissel), 1951, **65,** 149 (ab)
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—— retrograde, in diagnosis of cardiovascular lesions (N. E. Freeman, E. R. Miller, H. B. Stephens and M. B. Olney), 1951, **65,** 508 (ab)
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—— study of effect of drugs on intracranial vessels in patients with chronic headache (A. P. Friedman, E. Feiring, L. Davidoff and H. H. Merritt), 1950, **64,** 514 (ab)
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—— rheumatoid; use of nitrogen mustard; similarity of its effect to that of cortisone and ACTH (N. M. Shutkin), 1951, **66,** 1024 (ab)
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—— biopsy of bone marrow as aid in diagnosis of histoplasmosis; case (P. T. Pratt, S. O. Schwartz and L. Ehrlich), 1951, **65,** 659 (ab)
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—— radiation hygiene; hazards to physicians, patients, nurses and others from use of radioactive isotopes (W. E. Chamberlain and others), 1948, **61,** *726
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—— supply of esophagus and its relation to esophageal resection and anastomoses (J. L. Shek, C. A. Prietto, W. M. Tuttle and E. J. O'Brien), 1951, **65,** 502 (ab)
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—— vessels; variations in bronchovascular pattern of right upper lobe of 50 lungs; analysis (E. A. Boyden and J. G. Scannell), 1948, **60,** 708 (ab)
—— vessels; vascular epiphyseal changes in congenital dislocation of hip; results in adults compared with results in coxa plana and in congenital dislocation without vascular changes (W. K. Massie), 1952, **67,** 682 (ab)
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—— and **Bloom, W.:** Late effects of radium and plutonium on bone, 1950, **63,** 624 (ab)
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—— diseases; fibrous dysplasia; neurosurgical considerations in 2 cases (O. A. Turner), 1952, **67,** 1024 (ab)
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—— diseases; gargoylism (H. A. T. Fairbank), 1950, **63,** 604 (ab)
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—— diseases; leontiasis ossea (H. A. T. Fairbank), 1951, **66,** 316 (ab)
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—— diseases; Looser-Milkman's syndrome with neurofibromatosis Recklinghausen and general decalcification of the skeleton (C. A. Hernberg and W. Edgren), 1950, **64,** 714 (ab)
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—— diseases; osteomalacia (M. S. Sherman), 1950, **64,** 861 (ab)
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—— disseminated granuloma inguinale with miliary bone and joint involvement; pathologic findings in fatal case (J. Lyford, III, R. W. Johnson, Jr., S. Blackman and R. B. Scott), 1949, **62,** 157 (ab)
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—— factors determining deposition and demineralization (K. O. Haldeman), 1951, **66,** 145 (ab)
—— familial polyostotic osteodystrophy; roentgenologic

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—— generalized primary lymphangiomas; case with congenital lymphedema of forearm (R. Harris and A. G. Prandoni), 1951, **66,** 674 (ab)
—— graft, delayed autogenous, in congenital pseudoarthrosis (J. R. Moore), 1949, **62,** 767 (ab)
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—— lesions; effect of aminopterin on treatment of leukemia and allied disorders with folic acid antagonists (F. N. Silverman), 1951, **65,** 677 (ab)
—— lesions; genesis in traumatic fractures in Cooley's anemia (A. Toti), 1952, **67,** 883 (ab)
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—— abscess; diagnostic significance of change in position of metallic foreign bodies (E. H. Wood, Jr.), 1948, **59,** *52
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—— aerography (F. J. Hodges), 1951, **66,** 482 (ab)
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—— angiography in diagnosis of intracranial hematomas (K. Kristiansen), 1950, **63,** 757 (ab)
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—— angiography recorded cinefluorographically (H. Gass and others), 1950, **64,** 1027 (ab)
—— angiography; review (J. W. D. Bull), 1950, **64,** 513 (ab)
—— angiography; roentgen technic (B. Kuss), 1952, **67,** 838 (ab)
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—— Arnold-Chiari deformity and syringomyelia; the cervical subarachnoid space (J. H. Marks and K. E. Livingston), 1950, **63,** 434 (ab)
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—— arteriography; automatic roentgen-ray roll film magazine (C. T. Dotter, I. Steinberg and H. L. Temple), 1949, **62,** *355
—— arteriography in cerebral vascular accidents (I. S. Wechsler and S. W. Gross), 1949, **62,** 749 (ab)
—— arteriography in general hospital practice (R. C. Moore), 1952, **68,** 490 (ab)
—— arteriography in subarachnoid hemorrhage (S. Wechsler and S. W. Gross), 1949, **61,** 426 (ab)
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—— arteriography; technic and value (K. Kloss), 1951, **66,** 677 (ab)
—— arteriography; visualization of choroid plexus of temporal horn of lateral ventricle (B. Schlesinger), 1952, **68,** *403
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—— blood barrier studies with radioactive phosphorus (L. Bakay), 1952, **68,** 167 (ab)
—— blood supply; bilateral congenital arteriovenous communications (aneurysm) (R. Jaeger and R. P. Forbes), 1948, **59,** 898 (ab)
—— blood supply; cerebrovascular accidents; surgical management with particular reference to massive intracranial hemorrhage (E. S. Gurdjian and J. E. Webster), 1952, **67,** 504 (ab)
—— blood supply; cervical arteriovenous fistulas; complications and effects in 33 patients (J. M. Hammer and others), 1952, **68,** 160 (ab)
—— blood supply; circulation time (J. R. Green and R. Arana), 1948, **59,** *621
—— blood supply; demonstration with viscous perabrodil M 35% solution (K. Albrecht and W. Dressler), 1952, **67,** 843 (ab)

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—— blood vessels, diseases; diagnosis by cerebral angiography; indications and contraindications (J. R. Green and R. Arana), 1948, **59,** *626; *647
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—— calcification, habenular, as distinct from calcification in pineal gland; its application in cerebral localization; roentgenologic recognition (scientific exhibit) (H. M. Stauffer, L. B. Snow and A. B. Adams), 1951, **66,** 821
—— calcification in roentgenologic diagnosis of intracranial neoplasms (J. D. Camp), 1951, **66,** 830 (ab)
—— calcification in toxoplasmosis (D. Sutton), 1951, **66,** 833 (ab)
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—— calcification; roentgen changes produced by diffuse torulosis in the newborn (E. B. D. Neuhauser and A. Tucker), 1948, **59,** *805
—— calcifications, symmetrical, in anterior limb of internal capsules of brain without demonstrable neurological or metabolic disturbances (J. F. Sammet and P. C. Bucy), 1951, **66,** *880
—— cancer (H. C. Naffziger and E. B. Boldrey), 1949, **62,** 294 (ab)
—— cerebral ventricular system; translucent model (A. C. deVet), 1952, **67,** 840 (ab)
—— Chiari-Arnold deformity; roentgen diagnosis (J. R. Lewin, H. T. Wycis and B. R. Young), 1951, **65,** 498 (ab)
—— Chiari-Arnold malformation (L. I. Malis, I. Cohen and S. W. Gross), 1952, **68,** 988 (ab)
—— craniopharyngiomas in children (F. D. Ingraham and H. W. Scott), 1948, **59,** 755 (ab)
—— cyst, colloid, of third ventricle (H. Cairns and W. H. Mosberg), 1952, **67,** 838 (ab)
—— cysts, hydatid, primary (G. Phillips), 1948, **60,** 850 (ab)
—— cysts, of cavum septi pellucidi and cavum verge (R. M. Lowman, R. Shapiro and L. C. Collins), 1948, **59,** *179
—— damage, early, and dysplasia of base of skull (K. H. Schiffer), 1952, **67,** 842 (ab)
—— electroencephalography and histopathological correlations; experimental evaluation of certain contrast media used for cerebral angiography (B. M. Bloor, F. R. Wrenn, Jr., and G. Margolis), 1952, **68,** 866 (ab)
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—— focal epilepsy; correlation of pathological and radiological findings (D. L. McRae), 1949, **62,** 279 (ab)
—— functional irradiation of diencephalic hypophyseal region; clinical indications; results and technic (A. Anzilotti), 1950, **64,** 884 (ab)
—— gliomata; management (J. Pennybacker, D. W. C. Northfield, G. M. Parsons-Smith and G. K. Tutton), 1951, **65,** 497 (ab)
—— hematoma, subdural (O. Olsson), 1949, **61,** 426 (ab)
—— hematomas after prefrontal lobotomy; roentgenographic visualization (J. P. Murphy), 1950, **64,** *47
—— hematomas; diagnosis by angiography (K. Kristiansen), 1950, **63,** 757 (ab)
—— herniation into spinal canal by pantopaque myelography; case diagnosed preoperatively (J. R. Lewin, H. T. Wycis and B. R. Young), 1951, **65,** 498 (ab)
—— in generalized xanthomatosis (E. R. Troxler and D. Niemetz), 1948, **59,** 768 (ab)
—— increased pressure; pneumoencephalographic study of cerebrospinal fluid absorptive block mechanisms (R. B. Aird and D. Zealear), 1952, **68,** 321 (ab)
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—— intraventricular glioblastoma multiforme with pneumographic characteristics of intraventricular epidermoids; case (R. Shapiro), 1951, **66,** 831 (ab)
—— involvement in schistosomiasis japonica (D. G. Carroll), 1948, **59,** 755 (ab)
—— irritating effect of iodized vegetable oils when divided into small particules (R. Jaeger), 1951, **66,** 700 (ab)
—— lesions, cerebrovascular; arteriographic visualization (S. R. Govons and F. C. Grant), 1948, **59,** 900 (ab)
—— lesions; genesis of hallucinations occurring in patients (M. W. Riese), 1950, **64,** 673 (ab)
—— lesions; localization by radioactive di-iodo-fluorescein (M. Ashkenazy, L. Davis and J. Martin), 1952, **67,** 699 (ab)
—— lesions; expanding, contracting and atrophic; pneumographic diagnosis (instruction course) (A. E. Childe), 1948, **60,** 128 (ab)
—— malignant neoplasms; radiation therapy (instruction course) (C. B. Peirce), 1949, **62,** 138
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—— meningioma after trauma (J. C. Howarth and A. T. Bunts), 1950, **64,** 675 (ab)
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—— metastases, cancer; diagnosis by angiography (J. R. Green and R. Arana), 1948, **59,** *643
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—— metastases from multicentric osteogenic sarcoma in Paget's disease (H. Derman, P. Pizzolato and J. Ziskind), 1951, **65,** *221
—— metastases in lung cancer (F. De Simone), 1951, **66,** 122 (ab)
—— metastatic hypernephroma from neurosurgical point of view; 19 cases (T. P. Störtebecker), 1952, **67,** 501 (ab)
—— metastatic melanoma; case with unusually long survival period following surgical removal (V. Reyes and G. Horrax), 1950, **64,** 1026 (ab)
—— necrosis due to radiation therapy (J. Pennybacker and D. S. Russell), 1949, **62,** 902 (ab)
—— non-significant ventricular shift in pneumoencephalograms with particular reference to bowing of septum pellucidum (D. C. Eaglesham), 1951, **65,** 967 (ab)
—— phantom; localization of radioactive materials in (M. A. Griffin, Jr., P. O. Goland and R. H. Chamberlain), 1950, **64,** 554 (ab)
—— pinealomas (R. M. Lowman, R. Shapiro and L. C. Collins), 1958, **59,** *192
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—— schistosomiasis due to Schistosoma japonicum (C. W. Watson, F. Murphey and S. C. Little), 1948, **60,** 437 (ab)
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—— separation of blood vessels from walls of a lateral ventricle in rapidly progressing hydrocephalus (B. S. Epstein), 1952, **67,** *929
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—— shortening of posterior wall of sella turcica caused by dilatation of third ventricle or certain suprasellar tumors (B. S. Epstein) ,1951, **65,** *49
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—— subdural hematoma and effusion in infants (A. R. Elvidge and I. J. Jackson), 1950, **64,** 313 (ab)
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—— tumors and Morgagni's syndrome (S. Moore), 1952, **68,** 490 (ab)
—— tumors and other space-occupying diseases; roentgen demonstration of displaced intracranial physiologic calcification and its significance in diagnosis (B. R. Young), 1950, **64,** 313 (ab)
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—— **Spellberg, M., Kroll, H.,** and **Necheles, H.:** Peptic ulcer in man; evaluation of ulcer therapy, 1951, **65,** 649 (ab)

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Brandt, E. L., and **Griffin, A. C.:** Reduction of toxicity of nitrogen mustards by cysteine, 1952, **68,** 340 (ab)

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Brannan, D. D., Inderlied, H. F., Wertman, D. E., and **Kay, E. B.:** Bronchography employing a water soluble contrast medium (scientific exhibit), 1952, **68,** 824

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Brea, M. M. J., Aguilar, F., and **Santas, A. A.:** Bronchial adenomas; clinico-roentgenological study and report of 6 cases, 1951, **65,** 149 (ab)
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—— cancer; hormonal therapy; effect of testosterone propionate therapy on clinical course and hormonal excretion (A. Segaloff and others), 1952, **67,** 707 (ab)
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—— cancer; influence of roentgen castration (V. E. Thayssen), 1949, **62,** 460 (ab)
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—— cancer, multicentric, developing in previously irradiated breast (J. R. Lisa, G. T. Pack and J. D. Gioia), 1952, **68,** *452
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—— cancer; radical mastectomy; lymphedema of upper extremity; changes in axillary vein demonstrated by pre- and postoperative venograms (scientific exhibit) (P. E. Russo, J. R. Parker and D. O. Osterreicher), 1952, **68,** 825
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—— cancer; roentgen irradiation combined with Halsted operation (B. A. Nohrman), 1949, **62,** 459 (ab)
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—— cancer; rotational therapy with 2 million volt roentgen therapy (J. G. Trump and others), 1951, **66,** *622
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—— fistula, bronchoesophageal, congenital, persistent to adult life (D. R. Morton, J. F. Osborne and K. P. Klassen), 1951, **65,** 828 (ab)
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—— histological study of 5 minute pulmonary neoplasms believed to represent early bronchogenic carcinoma (A. B. Peterson, W. C. Hunter and V. C. Sneedden), 1950, **64,** 324 (ab)
—— intrabronchial rupture of lymph nodes (H. Behrendt), 1952, **68,** 499 (ab)
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—— spurs in Strümpell-Marie disease (J. B. Davis and H. C. Blair), 1951, **66,** 999 (ab)
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—— calcinosis, extensive; metastisizing cancer of parathyroid gland with osteitis fibrosa cystica and (J. T. Ellis and D. P. Barr), 1952, **67,** 683 (ab)
—— calcinosis in scleroderma (M. D. Ingram, Jr.), 1952, **68,** *918
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—— cardiac valvular; roentgen kymographic study (A. Lura and G. D. Botti), 1950, **64,** 329 (ab)
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—— cystic, of adrenal cortex without endocrine symptoms (M. X. Anderson, H. G. Roberts and E. T. Smith), 1951, **65,** 162 (ab)
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—— deposition in costal cartilages; genetic influence on osseous development (J. H. Vastine, II, M. F. Vastine and O. Arango), 1948, **59,** *213
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—— diffuse miliary; simultaneous primary occurrence of bronchopulmonary mycosis in 4 children and their mother with subsequent healing by (B. M. Hamil), 1950, **64,** 1035 (ab)
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—— habenular, as distinct from calcification in pineal gland; roentgenologic recognition; its application in cerebral localization (scientific exhibit) (H. M. Stauffer, L. B. Snow and A. B. Adams), 1951, **66,** 821

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—— and **Patterson, P. O.:** Rapid sequence cassette changers for angiography; improved single and bi-plane multiple cassette changers for contrast angiography (scientific exhibit), 1952, **68,** 827
—— **Lorman, J. G., Wilson, J. W.,** and **Manalan, M. M.:** The diaphragm (scientific exhibit), 1950, **64,** 848 (ab)
Campbell, J. B.: See **Matson, D. D.,** jt. auth.
Campbell, J. C.: See **Hatcher, C. H.,** jt. auth.
Campbell, J. H., and **Cummins, S. D.:** Metastases simulating mammary cancer in prostatic carcinoma under estrogenic therapy, 1952, **67,** 707 (ab)
Campbell, M.: Morbus coeruleus; its surgical treatment, 1952, **68,** 509 (ab)
—— and **Suzman, S.:** Transposition of the aorta and pulmonary artery, 1952, **68,** 496 (ab)
Campbell, M. F.: Bilateral embryonal adenomyosarcoma of kidney (Wilms' tumor), 1948, **60,** 578 (ab)
—— Congenital hydronephrosis and hydroureter, 1949, **61,** 133 (ab)
—— Stricture of urethra in children, 1950, **64,** 173 (ab)
—— Radiologic diagnosis of urinary tract tumors in infants and children, 1951, **65,** 848 (ab)
Campbell, R. J. C.: Gastric adenomyosis; report of case, 1950, **64,** 331 (ab)
Campi, L., and **Abeatici, S.:** Further experimental investigations on histopathological lesions of arterial walls caused by organic-iodide compounds used in arteriography, 1951, **65,** 339 (ab)
—— See **Abeatici, S.,** jt. auth.

Campos Filho, P. de S.: Submucous lipoma of the descending colon; report of case; considerations regarding Brazilian statistics, 1952, **67,** 153 (ab)
Canal of Wirsung: See Pancreatic Duct
Cancelmo, J. J., and **Bromer, R. S.:** Osteonephropathy in children, 1951, **65,** *889
Cancer, abdominal, advanced; radical surgery (A. Brunschwig), 1948, **59,** 302 (bk. rev.)
—— achievement of radium in fight against (S. Cade), 1948, **60,** *731
—— acquired radioresistance, problems; adaptation of tumor cells (F. Windholz), 1949, **61,** 442 (ab)
—— adenocarcinomas; four metachronous malignant lesions of colon (M. Edwards), 1950, **63,** 275 (ab)
—— adenoma sequence in colon cancer (R. J. Jackman and C. W. Mayo), 1952, **68,** 318 (ab)
—— adrenal; calcification in (C. L. Boice and W. N. Sears), 1952, **68,** 154 (ab)
—— adrenal cortex; case without endocrine changes (W. Griffiths), 1950, **64,** 702 (ab)
—— adrenal cortex; suprarenal cortical syndrome (W. L. McLaughlin and J. P. Bowler), 1948, **60,** 150 (ab)
—— adrenal cortical, nonhormonal (Z. R. Cottler), 1949, **62,** 453 (ab)
—— advanced; complete excision of pelvis viscera (A. Brunschwig), 1949, **62,** 461 (ab)
—— advanced, of male breast; effect of hormonal imbalance (J. B. Herrmann), 1952, **67,** 180 (ab)
—— advanced; radiation through a grid (scientific exhibit) (H. Marks), 1951, **66,** 823
—— alveolar cell; bronchiogenic neoplasm masquerading as; case clarified only by autopsy (W. L. Potts and H. B. Davidson), 1952, **67,** 517 (ab)
—— alveolar cell, of lung (R. R. Smith, K. P. Knudtson and W. L. Watson), 1950, **64,** 324 (ab)
—— alveolar cell, of lung (H. I. McCoy), 1952, **67,** 517 (ab)
—— American Cancer Society medical symposium on cancer problem, 1948, **60,** 562
—— ampullary and peri-ampullary; cases (A. Sheinmel and A. Joffe), 1951, **66,** *65
—— and diverticulitis of large bowel; differentiation a roentgenologic problem (R. G. Fraser and C. B. Peirce), 1951, **66,** 500 (ab)
—— and gastroscopic biopsy in differential diagnosis of gastritis and carcinoma (E. B. Benedict), 1952, **68,** 147 (ab)
—— and hormones (Editorial), 1948, **59,** 767 (ab)
—— and sarcoma, gastric; distinctions, with special reference to infiltrating types of sarcoma (A. Bassler and A. G. Peters), 1949, **62,** 592 (ab)
—— and simple gastric ulcer (B. F. Swynnerton and S. C. Truelove), 1952, **68,** 685 (ab)
—— and tobacco smoking (M. L. Levin, H. Goldstein and P. R. Gerhardt), 1951, **65,** 504 (ab)
—— anal; radiotherapeutic eradication with surgical repair (H. B. Hunt and D. H. Breit), 1948, **59,** *245
—— anal; statistics of Fondation Curie, Paris (J. L. Roux-Berger and A. Ennuyer), 1948, **60,** *807
—— anal; treatment with fast neutrons; survival time (Janeway lecture) (R. S. Stone), 1948, **59,** *781
—— annular, obstructing descending colon and sigmoid; 5 year survival rate (D. F. Nickell and M. B. Dockerty), 1949, **62,** 291 (ab)
—— antral and prolapsed gastric mucosa; differential roentgen diagnosis (C. Hawley, P. D. Meyer and B. Felson), 1949, **61,** *794
—— antral; treatment by combined surgery and radium therapy (V. P. Collins and J. L. Pool), 1951, **66,** 152 (ab)
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—— apical pulmonary, and tuberculosis (M. Bergmann, B. A. Shatz and I. J. Flance), 1949, **62,** 590 (ab)
—— are achlorhydria, achylia gastrica and pernicious anemia precancerous conditions? (F. S. Weinberg), 1952, **67,** 154 (ab)
—— arising from minor bronchi and bronchioles; peripheral type (J. H. Moyer and A. J. Ackerman), 1952, **67,** 147 (ab)
—— as sequel to war wounds (L. Gillis and S. Lee), 1952, **67,** 689 (ab)
—— basal cell, of anus (B. D. Lott and C. M. Alexander), 1950, **64,** 361 (ab)
—— benign and malignant epithelial tumors of thyroid gland (L. M. Zimmerman, D. H. Wagner, H. M. Perlmutter and G. D. Amromin), 1951, **65,** 968 (ab)
—— bilateral, of male breast after estrogen therapy (J. A. McClure and C. C. Higgins), 1952, **67,** 709 (ab)
—— bilharzial; radiological diagnosis and treatment (M. A. Afifi), 1949, **62,** 580 (bk. rev.)
—— biliary tract; direct irradiation by use of radioactive iodine in tetra-iodophenolphthalein (G. H. Copher and others), 1952, **67,** *964
—— biological effects of radiation (Janeway lecture, 1948), (S. Cade), 1948, **60,** *733
—— bladder (A. Jacobs, E. W. Riches and J. L. E. Millen), 1950, **63,** 957 (ab)
—— bladder; classification of epithelial tumors and study of effects of external radiation (F. H. Colby and R. C. Sniffen), 1948, **59,** 610 (ab)
—— bladder; evaluation of total cystectomy and other methods of treatment (F. H. Colby and W. S. Kerr, Jr.), 1952, **67,** 530 (ab)
—— bladder; further aspects of treatment (E. W. Riches), 1950, **63,** 958 (ab)
—— bladder, infiltrating; new bone formation associated with direct extension from lymph node metastases to bone; case (J. M. Phillips), 1951, **66,** 139 (ab)
—— bladder; radiation and surgery; comparison (V. F. Marshall), 1948, **59,** 610 (ab)
—— bladder; radiation treatment (J. M. W. Gibson), 1951, **66,** 1018 (ab)
—— bladder; radiation treatment (R. H. Flocks), 1951, **66,** 1019 (ab)
—— bladder; radiotherapy results (J. L. E. Millen), 1951, **66,** 1018 (ab)
—— bladder; radium treatment (S. Cade), 1948, **60,** *737
—— bladder; radium treatment; new technic (M. Friedman and L. G. Lewis), 1950, **64,** 359 (ab)
—— bladder; radon and roentgen therapy (D. S. Poole-Wilson), 1951, **66,** 1019 (ab)
—— bladder; relation of transitional cell buds, Golgi apparatus and mitochondria to (A. E. Bothe and D. S. Cristol), 1948, **60,** *535
—— bladder; skin metastases (L. E. McCrea), 1950, **64,** 171 (ab)
—— bladder; surgical treatment (J. T. Priestley), 1948, **59,** 594 (ab)
—— bladder; treatment and prognosis (H. J. Jewett), 1951, **66,** 324 (ab)
—— bladder; treatment by radon seed implantation and deep x-ray therapy (J. L. E. Miller), 1950, **63,** 958 (ab)
—— bladder, with bone metastases; 8 cases (H. L. Kretschmer and J. K. McDonald), 1949, **62,** 454 (ab)
—— bowel; prognosis (R. K. Gilchrist and V. C. David), 1949, **61,** 739 (ab)
—— bronchiogenic (H. Martin, H. M. Morfit and H. Ehrlich), 1951, **66,** 487 (ab)

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—— breast (U. V. Portmann), 1950, **64,** 890 (ab)
—— breast (R. Paterson), 1952, **68,** 704 (ab)
—— breast; absolute curability (W. W. Park and J. C. Lees), 1952, **68,** 502 (ab)
—— breast; action of steroid hormones (W. Van Winkle, Jr.), 1950, **64,** 369 (ab)
—— breast, advanced; effect of estrogenic hormone (J. B. Herrmann, F. E. Adair and H. Q. Woodard), 1949, **61,** 286 (ab)
—— breast, advanced; management (A. W. Erskine), 1948, **60,** 859 (ab)
—— breast, advanced; sex hormones and castration (I. T. Nathanson), 1952, **67,** 708 (ab)
—— breast, advanced; tracer studies with radioactive sodium estrone sulfate (S35) (E. F. Lewison and others), 1952, **67,** 703 (ab)
—— breast, and artificial menopause (L. Halberstaedter and A. Hochman), 1948, **59,** 154 (ab)
—— breast, and fertility (A. G. Gilliam), 1952, **68,** 687 (ab)
—— breast, and "Paget's disease" (C. J. Costello), 1948, **59,** 151 (ab)
—— breast, advanced; tracer studies with radioactive sodium estrone sulfate (S 35) (E. F. Lewison and others), 1952, **67,** 703 (ab)
—— breast, bone metastases (S. L. Baker, F. C. Golding, A. L. Crooke and G. W. Blomfield), 1951, **65,** 314 (ab)
—— breast, bone metastases from; colloidal lead orthophosphate associated with deep roentgen therapy (L. Reynolds, T. Leucutia, J. C. Cook and K. E. Corrigan), 1948, **60,** *193
—— breast; changes following irradiation (G. Lumb), 1951, **66,** 157 (ab)
—— breast; classification based on frequency of metastases; critical evaluation (C. Krebs), 1952, **68,** 852 (ab)
—— breast; classification of cases; criteria of incurability and treatment (U. V. Portmann), 1951, **66,** 484 (ab)
—— breast; clinical study of 1042 cases treated at Radiumhemmet, 1936-1941 (B. A. Nohrman), 1951, **66,** 117 (bk. rev.)
—— breast; diagnostic criteria in roentgenogram (J. Gershon-Cohen and H. Ingleby), 1952, **68,** *3
—— breast; discussion (S. Cade), 1950, **63,** 618 (ab)
—— breast; far advanced; present status of testosterone therapy (W. G. King), 1951, **66,** 697 (ab)
—— breast, female, and metastases; castration and androgen hormonal therapy (V. Costa), 1952, **67,** 340 (ab)
—— breast; 50 years experience at Massachusetts General Hospital (G. W. Taylor and R. H. Wallace), 1951, **66,** 484 (ab)
—— breast; histopathologic prognosis (G. Gricouroff), 1950, **63,** 289 (ab)
—— breast; hormonal therapy; effect of testosterone propionate (A. Segaloff and others), 1952, **67,** 707 (ab)
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—— breast; hormone therapy in relation to radiotherapy (B. A. Stoll), 1951, **66,** 686 (ab)
—— breast, in male, secondary to estrogenic administration (W. Abramson and H. Warshawsky), 1948, **60,** 438 (ab)
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—— breast, in mother and daughter; hereditary aspects (D. P. Morse), 1952, **67,** 852 (ab)

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—— breast, in 2 young girls, 7 and 9 years (M. Habibi), 1950, **63,** 289 (ab)
—— breast, in women; treatment with male sex hormone (F. A. Adair), 1948, **59,** 606 (ab)
—— breast; incidence in the Negro, 1940-1944; 302 cases (B. W. Robinson), 1951, **66,** *784
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—— breast, irradiation; tissue dose (V. P. Collins), 1951, **65,** 685 (ab)
—— breast; irradiation treatment (J. Maisin), 1949, **62,** 459 (ab)
—— breast, medullary; relative favorable prognosis (O. S. Moore and F. W. Foote), 1950, **63,** 957 (ab)
—— breast, metastases to bone; roentgen therapy (C. Fried), 1951, **65,** 670 (ab)
—— breast; metastases simulating mammary cancer in prostatic cancer under estrogenic therapy (J. H. Campbell and S. D. Cummins), 1952, **67,** 707 (ab)
—— breast, metastases; treatment (J. R. Freid and H. Goldberg), 1950, **63,** *312
—— breast, metastatic lesions; clinical response to hormonal therapy as related to histologic grade of malignancy (E. Lowenhaupt and H. L. Steinbach), 1950, **63,** 290 (ab)
—— breast; Middlesex Hospital, London, 1936-1942 (B. W. Windeyer), 1949, **62,** *345
—— breast, "milk factor"; analysis of 88 cases (H. W. Horne, Jr.), 1951, **66,** 484 (ab)
—— breast, multicentric, developing in previously irradiated breast (J. R. Lisa, G. T. Pack and J. D. Gioia), 1952, **68,** *452
—— breast, operable; radiation therapy (L. Diethelm), 1951, **66,** 323 (ab)
—— breast; Paget's disease of nipple; course and treatment (K. Lübschitz), 1948, **59,** 605 (ab)
—— breast; physiological importance of follicular hormone and estrogens (A. Butenandt), 1950, **63,** 950 (ab)
—— breast; postoperative radiotherapy (A. T. Berkman), 1951, **65,** 330 (ab)
—— breast; precancerous conditions (E. K. Dawson), 1950, **63,** 617 (ab)
—— breast; preoperative roentgen irradiation; 50 cases (J. Hoffmeyer), 1948, **59,** 154 (ab)
—— breast; primary inoperable; x-ray therapy (R. J. Guttmann), 1951, **65,** 330 (ab)
—— breast; prognosis (R. W. Scarff), 1950, **63,** 617 (ab)
—— breast; radiation and surgical treatment (R. B. Engelstad), 1948, **60,** *776
—— breast, radiation therapy; place and technic (instruction course) (H. W. Jacox), 1951, **66,** 267
—— breast, radical mastectomy; lymphedema of upper extremity; changes in axillary vein demonstrated by pre- and postoperative venograms (scientific exhibit) (P. E. Russo, J. R. Parker and D. O. Osterreicher), 1952, **68,** 825
—— breast; radical mastectomy; 205 cases (P. S. Putzki and J. H. Scully), 1948, **59,** 602 (ab)
—— breast; radium treatment (S. Cade), 1948, **60,** *738
—— breast; recurrence and survival in 203 patients (A. H. Robnett, T. E. Jones and J. B. Hazard), 1951, **66,** 687 (ab)
—— breast, recurrent; single portal massive dose x-ray therapy (M. Friedman and L. A. Davis), 1952, **68,** 852 (ab)

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—— breast; results from statistical research (J. Clemmesen), 1950, **63,** 761 (ab)
—— breast; results of treatment, 1929-1943, at Radium Centre, Odense, Denmark (J. Saugmann-Jensen and P. Jacoby), 1951, **66,** 1017 (ab)
—— breast; results of treatment, 1935-1942 (C. D. Haagensen and A. P. Stout), 1952, **68,** 334 (ab)
—— breast; roentgen therapy alone (F. Baclesse), 1952, **67,** 1028 (ab)
—— breast; roentgen therapy as sole method of treatment (F. Baclesse), 1949, **62,** *311
—— breast; roentgen therapy (instruction course) (E. T. Leddy), 1948, **60,** 126 (ab)
—— breast; roentgen therapy (instruction course) (M. Lenz), 1949, **62,** 141; 1952, **68,** 127
—— breast, roentgen therapy, preoperative and postoperative (G. E. Pfahler and G. P. Keefer), 1948, **59,** 606 (ab)
—— breast; roentgen therapy; 601 cases treated at Radium Centre for Jutland during 1924-1936 (H. Gylstorff-Petersen), 1948, **59,** 605 (ab)
—— breast, roentgenography; classified pathological basis for roentgenologic criteria (J. Gershon-Cohen and H. Ingleby), 1952, **68,** *1
—— breast; role of accurate examination of sternal bone; importance of spongy osseous tissue in neoplastic dissemination (Gil y Gil), 1952, **68,** 844 (ab)
—— breast; role of irradiation in management (E. P. Pendergrass and D. Kirsh), 1950, **63,** 293 (ab)
—— breast; rotational scanning with supervoltage radiation (H. F. Hare, J. G. Trump and E. W. Webster), 1952, **68,** *435
—— breast; rotational therapy with 2 million volt roentgen therapy (J. G. Trump and others), 1951, **66,** *622
—— breast; significance of skin recurrences after radical mastectomy (D. R. Oliver and E. D. Sugarbaker), 1948, **59,** 758 (ab)
—— breast; spontaneous regression of pleural carcinosis (B. A. Nohrman), 1950, **64,** 683 (ab)
—— breast; steroid hormone therapy (I. Macdonald, F. E. Davis and G. Jacobson), 1952, **68,** *954
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—— breast; surgical treatment and irradiation (J. J. Stein, W. E. Costolow and O. N. Meland), 1952, **67,** 332 (ab)
—— breast; treatment (R. McWhirter), 1949, **62,** *335
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—— breast; treatment and result (E. Berven), 1949, **62,** *320
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—— breast; treatment and results at Presbyterian Hospital, New York, 1935-1942 (C. D. Haagensen), 1949, **62,** *328
—— breast; treatment by roentgen irradiation combined with Halsted operation (B. A. Nohrman), 1949, **62,** 459 (ab)
—— breast; treatment, hormonal (G. W. Taylor), 1949, **62,** *343
—— breast; treatment, million volt x-ray (I. G. Williams), 1950, **63,** 614 (ab)
—— breast; treatment, palliative; evaluation (T. G. Orr), 1951, **65,** 664 (ab)
—— breast; treatment: simple mastectomy and radiotherapy (R. McWhirter), 1950, **63,** 618 (ab)

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—— breast; treatment, value of surgery and radiotherapy (G. Gordon-Taylor, R. McWhirter and S. Cade), 1950, **63,** 289 (ab)
—— breast; treatment with fast neutrons; survival time (R. S. Stone), 1948, **59,** *781
—— breast, with herpes zoster (E. P. Pendergrass and D. Kirsh), 1950, **63,** 956 (ab)
—— breast, with widespread metastases to bone; radioactive phosphorus in treatment (H. L. Friedell and J. P. Storaasli), 1950, **64,** *559
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—— bronchial; esophagus and mediastinal lymphadenopathy in (F. G. Fleischner), 1952, **68,** 1008 (ab)
—— bronchial, primary, blood accumulation simulating; case (J. D. Call and P. P. Vinson), 1948, **59,** *227
—— bronchial; pulmonary arteriography; diagnostic value (P. G. Keil, C. A. Voelker and D. J. Schissel), 1951, **65,** 149 (ab)
—— bronchial; roentgen diagnosis (S. Di Rienzo), 1952, **68,** 998 (ab)
—— bronchial; stomach complaints as distant symptoms (M. Wenzl), 1951, **65,** 513 (ab)
—— bronchial, uncomplicated by secondary infection (J. H. Moyer and A. J. Ackerman), 1952, **67,** 147 (ab); 148 (ab)
—— bronchogenic (G. E. Lindskog and W. E. Bloomer), 1949, **62,** 285 (ab)
—— bronchogenic (E. Graham), 1949, **62,** 751 (ab)
—— bronchogenic (K. Laivaag), 1950, **64,** 677 (ab)
—— bronchogenic; analysis of 343 cases (R. K. Hollingsworth), 1949, **61,** 271 (ab)
—— bronchogenic, and coexistent pulmonary tuberculosis (E. Robbins and G. Silverman), 1950, **63,** 129 (ab)
—— bronchogenic, and diabetes insipidus; cases (H. D. Peabody, Jr. and A. M. Olsen), 1952, **67,** 148 (ab)
—— bronchogenic, and pulmonary tuberculosis (L. M. Shefts and W. Hentel), 1951, **65,** 150 (ab)
—— bronchogenic, and unresolved pneumonia; differential diagnosis by pulmonary angiography (P. G. Keil and D. J. Schissel), 1951, **65,** 827 (ab)
—— bronchogenic, as differential diagnostic problem in pulmonary disease (J. H. Moyer and A. J. Ackerman), 1952, **67,** 147 (ab); 148 (ab)
—— bronchogenic; asbestosis associated with (R. Stoll, R. Bass and A. A. Angrist), 1952, **68,** 999 (ab)
—— bronchogenic; considerations (E. A. Graham), 1951, **66,** 294 (ab)
—— bronchogenic; correlation of pathologic characteristics and clinical manifestations in unresectable and unexplored postmortem lung tumors (G. M. Bogardus, W. E. Adams and F. J. Phillips), 1951, **65,** 644 (ab)
—— bronchogenic; cytologic diagnosis (L. B. Woolner and J. R. McDonald), 1950, **64,** 678 (ab)
—— bronchogenic; diagnosis by cytologic methods (S. M. Farber, M. A. Benioff and A. K. McGrath, Jr.), 1950, **63,** 760 (ab)
—— bronchogenic, diagnosis: cancer cells in sputum and bronchial secretions (scientific exhibit) (L. B. Woolner and J. R. McDonald), 1948, **60,** 554
—— bronchogenic, diagnosis; modern trends (S. N. Deboo), 1951, **65,** 149 (ab)
—— bronchogenic; diagnostic value of pulmonary angiography (D. J. Schissel and P. G. Keil), 1952, **67,** *51
—— bronchogenic; differential diagnosis (scientific ex-

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—— bronchogenic; early clinical features; illustrative cases (C. M. Norris), 1949, **61,** 120 (ab)
—— bronchogenic; early cytological diagnosis by directed bronchial probing (H. Hengstmann and D. Wittekind), 1950, **63,** 947 (ab)
—— bronchogenic; early detection (D. L. Paulson and R. R. Shaw), 1952, **67,** 848 (ab)
—— bronchogenic; emphysema as early roentgen sign (L. G. Rigler and G. M. Kelby), 1949, **61,** 576 (ab)
—— bronchogenic; fate of oil particles in lung and their possible relationship to development of (L. R. Sante), 1949, **62,** *788
—— bronchogenic; influence of sex hormones on successful heterologous transplantation (R. L. Kemler and E. A. Graham), 1951, **66,** 169 (ab)
—— bronchogenic; inoperable; treatment with nitrogen mustard (J. F. Lynch, P. F. Ware and E. A. Gaensler), 1950, **64,** 895 (ab)
—— bronchogenic, management; nitrogen mustard as adjunct to radiation (B. Roswit and G. Kaplan), 1949, **61,** *632; 1952, **68,** 340 (ab)
—— bronchogenic, masquerading as alveolar cell cancer; case clarified only by autopsy (W. L. Potts and H. B. Davidson), 1952, **67,** 517 (ab)
—— bronchogenic; 94 cases (J. D. Stenstrom), 1952, **67,** 518 (ab)
—— bronchogenic; non-malignant intrathoracic lesions simulating (L. A. Brewer, III, W. Jones and F. S. Dolley), 1949, **62,** 444 (ab)
—— bronchogenic; pathologic clinical correlative study of full-size mounts from operated carcinomas (F. J. Phillips, C. E. Basinger and W. E. Adams), 1951, **65,** 644 (ab)
—— bronchogenic; phalangeal metastases from (G. M. Colson and A. Willcox), 1948, **60,** 855 (ab)
—— bronchogenic; planar roentgenography (E. Muntean), 1951, **65,** 974 (ab)
—— bronchogenic, primary, of lung in children; review of literature; case (C. K. Cayley, H. J. Caez and W. Mersheimer), 1952, **67,** 848 (ab)
—— bronchogenic, primary; surgical resection of human carina, tracheal wall and contralateral bronchial wall in cases of right total pneumonectomy (O. A. Abbott), 1951, **65,** 828 (ab)
—— bronchogenic; pulmonary tuberculosis simulating (A. R. Valle and M. L. White, Jr.), 1949, **61,** 577 (ab)
—— bronchogenic; radiation therapy (instruction course) (B. P. Widmann), 1949, **62,** 142
—— bronchogenic; radiologist's responsibility (A. C. Singleton), 1951, **66,** 845 (ab)
—— bronchogenic; relationship of pulmonary tuberculosis, bronchiectasis and calcification (C. E. Woodruff and H. C. Nahas), 1952, **68,** 996 (ab)
—— bronchogenic; roentgen diagnosis (L. G. Rigler), 1949, **61,** *753
—— bronchogenic; roentgen diagnosis prior to pneumonectomy (A. Leb), 1951, **65,** 974 (ab)
—— bronchogenic; roentgen manifestations (instruction course) (W. W. Stanbro), 1951, **66,** 274
—— bronchogenic, simulating tuberculoma of lung (I. Kross), 1951, **65,** 150 (ab)
—— bronchogenic; some questions (E. A. Graham), 1952, **68,** 501 (ab)
—— bronchogenic; surgical aspects (J. C. Jones), 1948, **59,** 758 (ab)
—— bronchogenic; tobacco smoking as possible etiologic factor; study of 684 proved cases (E. L. Wynder and E. A. Graham), 1951, **65,** 504 (ab)
—— bronchogenic; treatment with nitrogen mustard (L. Kent and E. P. Reh), 1950, **64,** 894 (ab)
—— bronchogenic, with leiomyosarcoma of prostate (H. Ostry), 1951, **65,** 163 (ab)
—— bronchopulmonary, apical form (N. Romano and R. Eyherabide), 1949, **61,** *457
—— buccal mucosa; treatment and end results (H. S. Jackson and G. B. New), 1951, **66,** 323 (ab)
—— calcifications; diagnosis of tumors of breast by simple roentgenography (R. Leborgne), 1951, **65,** *1
—— can it be an inherited family disease? (H. J. VandenBerg), 1951, **66,** 1011 (ab)
—— cancer eye in bovines; study, 1952, **67,** 122
—— canthi; treatment with low intensity element needles (C. L. Martin), 1949, **62,** *479
—— carcinogenic properties of radioactive fission products and of plutonium (H. Lisco, M. P. Finkel and A. M. Brues), 1949, **61,** 880 (ab)
—— cardia; radiation therapy (R. Schindler, S. S. Schlosberg and M. Benjamin), 1951, **66,** 324 (ab)
—— cardia, stomach, as detected by laminagraphy (R. L. Friedman and M. G. Wasch), 1952, **67,** *932
—— cardiac region of stomach; roentgen diagnosis (R. S. Sherman), 1950, **63,** 454 (ab)
—— caused by hormonal action (A. Lacassagne), 1951, **66,** 340 (ab)
—— cecal, and appendicular abscess, coexistent (H. Hellsten and S. Ramström), 1951 **66,** 862 (ab)
—— cecal; ileocecal invagination due to (M. A. Casal, M. L. Garcia and J. A. Coppola), 1952, **67,** 526 (ab)
—— cecal, or para-cecal abscess, complicated by appendicitis (C. A. V. Burt), 1950, **63,** 767 (ab)
—— cells, gastric, exfoliation; abrasive balloon for (F. G. Panico, G. N. Papanicolaou and W. A. Cooper), 1951, **66,** 129 (ab)
—— cells in bronchial secretions (P. A. Herbut and L. H. Clerf), 1949, **61,** 120 (ab)
—— cells in prostatic secretions (D. D. Albers, J. R. McDonald and G. J. Thompson), 1949, **62,** 763 (ab)
—— cells in sputum and bronchial secretions; aid in diagnosis of bronchogenic carcinoma (scientific exhibit) (L. B. Woolner and J. R. McDonald), 1948, **60,** 554
—— cells in urine; clinical appraisal of Papanicolaou method (C. J. Schmidlapp, II and V. F. Marshall), 1948, **60,** 577 (ab)
—— cells of certain glands under hormonal control; biological bases of associated action of hormones and roentgen rays on (A. Chamorro), 1949, **61,** 588 (ab)
—— center face (J. B. Howell), 1951, **65,** 663 (ab)
—— cervical lymph node metastases; surgical management (G. W. Taylor), 1951, **65,** 666 (ab)
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—— female genital, diagnosis; clinical evaluation of 3500 vaginal cytologic studies (N. B. Reicher, B. W. Massey and E. Bechtold), 1951, **65,** 298 (ab)
—— female urinary bladder (J. S. Ritter and L. A. Shifrin), 1950, **64,** 171 (ab)
—— fractionated intra-arterial chemotherapy with methyl bis amine hydrochloride; preliminary report (C. T. Klopp and others), 1951, **66,** 696 (ab)
—— gallbladder; clinical and pathologic analysis of 50 cases (C. J. Jones), 1951, **65,** 987 (ab)
—— gallbladder, primary; 29 cases (P. Russell and C. H. Brown), 1951, **65,** 988 (ab)
—— gastric (H. Taylor), 1949, **61,** 124 (ab)
—— gastric (H. C. Edwards), 1951, **65,** 511 (ab)
—— gastric, and gastric ulcer, relationship; panel discussion (G. T. Pack, moderator), 1951, **65,** 832 (ab)
—— gastric, and hypertrophic gastritis; relationship (R. P. Barden), 1951, **66,** *915
—— gastric cardia, with partial thoracic stomach, short esophagus and peptic ulceration (D. W. Smithers), 1951, **65,** 650 (ab)
—— gastric; detection by photofluorographic methods; equipment design (J. F. Roach, R. D. Sloan and R. H. Morgan), 1949, **61,** *183; *188
—— gastric; detection by photofluorographic methods; findings (J. F. Roach, R. D. Sloan and R. H. Morgan), 1952, **67,** *68
—— gastric; diagnosis (H. M. Pollard, H. C. Bryant, M. Block and W. C. Hall), 1949, **62,** 758 (ab)
—— gastric; diagnosis by electrogastrography (P. N. Sawyer, J. E. Rhoades and R. Panzer), 1950, **64,** 539 (ab)
—— gastric, diagnosis; cytologic method (R. Graham, H. Ulfelder and T. H. Green), 1949, **61,** 734 (ab)
—— gastric, diagnosis; mucolytic action of papain for cell concentration (M. Rosenthal and H. F. Traut), 1952, **67,** 710 (ab)
—— gastric; early diagnosis (N. Bolker), 1950, **63,** 770 (ab)
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—— gastric; early diagnosis (instruction course) (L. Donaldson), 1948, **60,** 128 (ab)
—— gastric; early diagnosis; pathological problems (G. Majno), 1951, **65,** 512 (ab)
—— gastric; early roentgenologic diagnosis (M. Lüdin), 1951, **66,** 130 (ab)
—— gastric; epidermoid cancer of pyloric antrum (J. R. C. Diaz), 1952, **68,** 314 (ab)
—— gastric; esophageal extension; clinical-surgical importance (A. N. Canonico and O. Eguia), 1951, **65,** 501 (ab)
—— gastric; extension into duodenum and esophagus (M. M. Zinninger and W. T. Collins), 1950, **64,** 544 (ab)
—— gastric; gastroscopy (H. W. Rodgers), 1948, **60,** 571 (ab)
—— gastric; identification of regional lymph nodes by means of a vital staining dye (J. Weinberg and E. M. Greaney), 1951, **65,** 834 (ab)
—— gastric, in patients with pernicious anemia; mortality and risk (J. Mosbech and A. Videbaek), 1951, **66,** 320 (ab)
—— gastric; incidence and detection (B. R. Kirklin and J. R. Hodgson), 1948, **60,** *600
—— gastric; incidence and diagnostic procedures (S. N. Maimon and W. L. Palmer), 1948, **59,** 306 (ab)

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—— gastric; irradiation (G. C. Fairchild and A. Shorter), 1948, **60,** 573 (ab)
—— gastric; lipoma submucosa ventriculi simulating; case (H. Paaby), 1950, **64,** 161 (ab)
—— gastric; mass gastric roentgenological surveys for control (H. E. Hilleboe, M. L. Levin and P. R. Gerhardt), 1949, **62,** *574
—— gastric; mass gastric roentgenological surveys to detect (S. Moore), 1949, **61,** *470
—— gastric; mucosal pattern in diagnostic study (G. Steiner), 1950, **63,** 458 (ab)
—— gastric; osseous metastases (A. C. Maggi, J. M. Remolar and M. Meeroff), 1951, **66,** 298 (ab)
—— gastric; partial and total gastrectomy; results (E. Landelius), 1950, **63,** 459 (ab)
—— gastric, perforated, simulating perforated gastric ulcer (R. Doll), 1950, **64,** 544 (ab)
—— gastric, perforation (F. F. Boyce), 1948, **59,** 306 (ab)
—— gastric; prolonged and obscured development; case (R. A. Gutmann and others), 1950, **63,** 457 (ab)
—— gastric; radiologist's point of view (J. L. A. Grout), 1948, **60,** 571 (ab)
—— gastric; roentgen diagnosis problems (S. C. Shanks), 1950, **64,** 690 (ab)
—— gastric; role of internist in detection and early diagnosis (C. L. Brown), 1951, **66,** 298 (ab)
—— gastric; should total gastrectomy be employed? (F. H. Lahey and S. F. Marshall), 1951, **66,** 497 (ab)
—— gastric; some pathological considerations (M. J. Stewart), 1948, **60,** 572 (ab)
—— gastric, superficial spreading (R. Golden and A. P. Stout), 1948, **59,** *157
—— gastric; surgical aspect (H. Taylor), 1948, **60,** 572 (ab)
—— gastric; surgical treatment; present status (C. A. Moyer and S. L. Clayton), 1951, **66,** 299 (ab)
—— gastric; symposium (J. L. A. Grout, H. W. Rodgers, M. J. Stewart, H. Taylor, G. C. Fairchild and A. Shorter), 1948, **60,** 571-573 (ab)
—— gastric; symptomatology and diagnosis (J. S. LaDue, P. J. Murison, G. McNeer and G. T. Pack), 1950, **64,** 1042 (ab)
—— gastric; total gastrectomy (W. Longmire, Jr.), 1948, **59,** 306 (ab)
—— gastric; treatment; recent advances (H. L. Bockus), 1949, **61,** 429 (ab)
—— gastric; validity of basing prognosis upon Borrmann typing or presence of metastases (G. E. Moore, D. State, R. Hebbel and A. E. Treloar), 1949, **62,** 291 (ab)
—— gastrointestinal tract (J. C. Ehrlich and O. B. Hunter), 1948, **59,** 587 (ab)
—— gastrointestinal; nature of postoperative hypoproteinemia in patients (I. M. Ariel), 1950, **63,** 132 (ab)
—— gastrostomy for malignant disease; evaluation (R. C. Clay), 1950, **64,** 690 (ab)
—— generalized giant hypertrophic gastritis simulating neoplasm; differential diagnosis and report of case (J. P. Bartlett and W. E. Adams), 1951, **65,** 156 (ab)
—— genital and breast and pregnancy (M. Floksztrumpf), 1951, **66,** 667 (ab)
—— genital; cytology in obstetric and gynecologic patients; 4 year study (W. K. Cuyler and others), 1952, **68,** 320 (ab)
—— genital, female (S. Way), 1952, **67,** 661 (bk. rev.)
—— genital; what value is male hormone in management in the female? (N. F. Miller, G. Thompson and W. Johnson), 1952, **67,** 339 (ab)
—— genitourinary tract diagnosis; stained smears of

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cells exfoliated in urine (R. Chute and D. W. Williams), 1948, **60,** 577 (ab)
—— granuloma inguinal of cervix diagnosed clinically as cancer; 4 cases (M. D. Speiser), 1950, **63,** 779 (ab)
—— growth in tissue culture of analogous mouse mammary carcinomas and their response to radiation (G. Goldfeder and G. Cameron), 1950, **63,** 147 (ab)
—— gum (W. L. Mattick and D. J. Meehan), 1952, **67,** 178 (ab)
—— gum (C. L. Martin and E. J. Craffey), 1952, **67,** *420
—— gynecological; advances in practical prevention (R. J. Crossen), 1948, **59,** 590 (ab)
—— hand; radiotherapeutic eradication with surgical repair (H. B. Hunt and D. H. Breit), 1948, **59,** *238
—— head and neck; treatment with Co 60 (scientific exhibit) (J. L. Morton and G. W. Callendine), 1951, **66,** 823
—— head, nonresectable; use of radioactive cobalt (A. G. James, R. D. Williams and J. L. Morton), 1952, **68,** 854 (ab)
—— head; treatment; dental aids (A. J. Ackerman), 1948, **59,** *539
—— heredity, hormones and cancerigenic substances (J. Maisin), 1950, **64,** 146 (bk. rev.)
—— hilar densities simulating neoplasms (C. Gottlieb and H. S. Sharlin), 1948, **60,** 707 (ab)
—— histochemical interpretation of radiosensitivity of normal and neoplastic tissue; role of nucleic acids (L. Cornil and A. Stahl), 1952, **68,** 343 (ab)
—— Hürthle-cell, of thyroid; review of 40 cases (E. L. Frazell and B. J. Duffy, Jr.), 1952, **68,** 492 (ab)
—— hypopharyngeal and laryngopharyngeal; treatment by combination of surgery and radiotherapy (J. Leroux-Robert, A. Ennuyer and R. Calle), 1951, **66,** 515 (ab)
—— hypopharyngeal; problem (R. D. Owen), 1950, **64,** 1024 (ab)
—— hypopharyngeal; roentgen therapy (F. Baclesse), 1950, **63,** 955 (ab)
—— hypopharyngeal; roentgent therapy (S. Mustakallio), 1948, **59,** 608 (ab)
—— hypopharyngeal; treatment, radiotherapy and/or surgery (J. Leroux-Robert), 1951, **65,** 664 (ab)
—— importance of exploratory thoracotomy in diagnosis of certain pulmonary lesions (C. R. Johnson, O. T. Clagett and C. A. Good), 1950, **63,** 451 (ab)
—— in childhood (I. G. Williams), 1948, **59,** 600 (ab)
—— in exstrophy of bladder; 3 cases (J. A. Davidson), 1951, **65,** 656 (ab)
—— in mice; biologic effects of long continued irradiation (E. Lorenz), 1950, **63,** *179
—— in region of papilla of Vater; study of cases in which resection was performed (E. M. Miller, M. B. Dockerty, E. E. Wollaeger and J. M. Waugh), 1952, **67,** 160 (ab)
—— in sinuses of chronic osteomyelitis (K. L. Marks and W. L. Turner), 1952, **67,** 133 (ab)
—— in situ of right lower bronchus; case (G. N. Papanicolaou and I. Koprowska), 1952, **67,** 518 (ab)
—— incipient, of pylorus, of microscopic dimensions (J. Justin-Besancon and others), 1950, **63,** 457 (ab)
—— infiltrating, of bladder (H. J. Jewitt), 1948, **59,** 593 (ab)
—— inflammatory, of breast (A. C. Meyer, M. B. Dockerty and S. W. Harrington), 1949, **62,** 281 (ab)

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—— inflammatory, of breast; 20 cases and review of literature (S. M. Chris), 1951, **66,** 1017 (ab)
—— inoperable; combined radiation therapy and surgery (G. T. Pack and T. R. Miller), 1952, **68,** 530 (ab)
—— inoperable, or rectum; radiotherapy hazards (I. G. Williams), 1951, **66,** 1019 (ab)
—— inoperable; roentgen irradiation by non-alternate chessboard or sieve method; comparative results with other methods (scientific exhibit) (H. Marks), 1952, **68,** 826
—— internal; most detectable (R. H. Overholt), 1952, **67,** 858 (ab)
—— International Congress of Cancer (5th), 1950, **64,** 141
—— intestinal (R. J. Jackman, H. A. Neibling and J. M. Waugh), 1948, **60,** 145 (ab)
—— intestinal, early; diagnosis (H. M. Weber), 1950, **64,** *929
—— intestinal; evolution of adenomas, relation to (E. B. Helwig), 1948, **59,** 306 (ab)
—— intralaryngeal; functional results and permanence of cure following roentgen therapy (J. Nielsen), 1952, **68,** 163 (ab)
—— intramural extension in descending colon, sigmoid and rectosigmoid; pathologic study (W. A. Black and J. M. Waugh), 1949, **62,** 292 (ab)
—— intraoral epidermoid, and dental prostheses (A. Hoboek), 1950, **63,** 953 (ab)
—— intraoral; treatment with low intensity radium element needles (C. L. Martin), 1949, **62,** *482
—— intraventricular epidermoid (H. Hauser and C. W. Elkins), 1950, **63,** 433 (ab)
—— intrinsic, of larynx (V. E. Negus), 1948, **60,** 701 (ab)
—— intrinsic, of larynx; radiation diagnosis and treatment (S. Cade), 1952, **68,** 703 (ab)
—— irradiation necrosis of pelvic viscera in the female; partial or complete pelvic exenteration (A. Brunschwig), 1952, **68,** 534 (ab)
—— jaws; radiotherapeutic eradication with surgical repair (H. B. Hunt and D. H. Breit), 1948, **59,** *244
—— jejunal; 2 cases (P. Delano), 1948, **59,** *685
—— jejunal; case (I. Braun), 1948, **59,** 305 (ab)
—— jejunum and ileum exclusive of carcinoid tumors (J. E. Pridgen, C. W. Mayo and M. B. Dockerty), 1951, **65,** 840 (ab)
—— large bowel and rectum; diagnosis (N. A. McCormick), 1952, **67,** 670 (ab)
—— large bowel; diagnosis (N. W. Swinton, H. F. Hare and W. A. Meissner), 1950, **63,** 773 (ab)
—— large bowel; 478 cases including 80 5-year survivors (J. W. Buser, J. B. Kersner and W. L. Palmer), 1950, **64,** 1046 (ab)
—— large bowel; 580 lesions (H. C. Spear and S. C. Brainard), 1952, **68,** 837 (ab)
—— laryngeal (C. L. Jackson, J. V. Blady, C. M. Norris and W. H. Maloney), 1949, **62,** 750 (ab)
—— laryngeal (M. Cutler), 1950, **63,** 143 (ab)
—— laryngeal (F. Baclesse and R. W. Gunderson), 1950, **64,** 856 (bk. rev.)
—— laryngeal; anatomical classification for use in radiation therapy (E. L. Jenkinson and E. L. Pirkey), 1948, **59,** *222
—— laryngeal; diagnosis and treatment (D. S. Cunning), 1950, **63,** 956 (ab)
—— laryngeal, early; roentgen therapy (M. Cutler), 1951, **65,** 329 (ab)
—— laryngeal, irradiated; late changes in mucous mem-

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brane; histological studies (F. Windholz), 1949, **61,** 439 (ab)
—— laryngeal; methods and results of treatment (G. B. New, F. A. Figi, F. Z. Havens and J. B. Erich), 1948, **60,** 564 (ab)
—— laryngeal; mortality in (J. G. Schoolman), 1948, **60,** 564 (ab)
—— laryngeal; osseous metastases (F. Baclesse and C. Sarris), 1952, **67,** 317 (ab)
—— laryngeal; panlaryngectomy (A. Brunschwig and J. R. Lindsay), 1948, **59,** 146 (ab)
—— laryngeal; planigraphy (scientific exhibit) (C. L. Jackson, C. M. Norris, J. V. Blady and J. P. Moore), 1952, **68,** 824
—— laryngeal; radiation therapy; end results obtained in 341 cases irradiated at Curie Foundation (F. Baclesse), 1948, **60,** 440 (ab)
—— laryngeal; radiation therapy (instruction course) (R. M. Caulk), 1950, **64,** 133
—— laryngeal; radiotherapeutic eradication with surgical repair (H. B. Hunt and D. H. Breit), 1948, **59,** *243
—— laryngeal; radiotherapy; observations on choice of treatment (V. E. Negus), 1952, **68,** 161 (ab)
—— laryngeal; reactions of connective tissues after protracted fractionated irradiation (F. Windholz), 1949, **61,** 582 (ab)
—— laryngeal; roentgen therapy (M. Lenz), 1948, **59,** 607 (ab)
—— laryngeal; roentgen therapy (W. Harris, R. Kramer and S. M. Silverstone), 1950, **63,** 143 (ab)
—— laryngeal; roentgen therapy (R. M. Caulk), 1952, **67,** *443
—— laryngeal; roentgen therapy (F. Baclesse), 1952, **68,** 161 (ab)
—— laryngeal; roentgen therapy (F. E. Leborgne), 1952, **68,** 162 (ab)
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—— laryngeal; treatment indications (instruction course) (J. A. del Regato), 1951, **66,** 267
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—— laryngeal; treatment with fast neutrons; survival time (R. S. Stone), 1948, **59,** *777; *778
—— laryngeal; tumor dose (C. P. Donlan), 1949, **62,** 459 (ab)
—— lip (C. C. Burkell), 1950, **64,** 357 (ab)
—— lip and mouth, including cervical metastases; complete radiological care (instruction course) (C. L. Martin), 1948, **60,** 126 (ab)
—— lip; cervical metastases from; treatment (W. E. Howes and J. Rosenstein), 1948, **60,** *771
—— lip; irradiation as preferred treatment (G. S. Sharp, H. F. Williams and R. E. Pugh, Jr.), 1951, **65,** 325 (ab)
—— lip; longevity after treatment; 363 cases (B. P. Widmann), 1950, **63,** *13
—— lip; radiotherapeutic eradication with surgical repair (H. B. Hunt and D. H. Breit), 1948, **59,** *244
—— lip; review of 563 case records at Pondville Hospital (J. E. Cross, E. Guralnick and E. M. Daland), 1949, **61,** 283 (ab)
—— lip; roentgen therapy (J. A. del Regato), 1950, **63,** 143 (ab)
—— lip; survey of end results of treatment at Brooklyn Cancer Institute, 1930-1944 (W. E. Howes and J. Rosenstein), 1948, **60,** *763

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—— lip, treatment, surgery and roentgen ray; results (G. E. Ward and J. W. Hendrick), 1950, **64,** 887 (ab)
—— lip; treatment with fast neutrons; survival time (R. S. Stone), 1948, **59,** *780
—— lip; types of treatment; 363 cases (B. P. Widmann), 1950, **63,** *13
—— liver; direct irradiation by radioactive iodine in tetraiodophenolphthalein (G. H. Copher and others), 1952, **67,** *964
—— lymphangitic, of lungs; 6 case reports and review of literature (T. E. Hauser and A. Steer), 1952, **67,** 518 (ab)
—— lymphosarcoma of head and neck (D. Catlin), 1948, **59,** *354
—— male breast, and other neoplasms (B. A. Payson and R. Rosh), 1950, **63,** 287 (ab)
—— male breast; castration as therapeutic measure (N. Treves), 1950, **63,** 288 (ab)
—— male breast; 19 cases and review of literature (P. Somerville), 1952, **68,** 1010 (ab)
—— malignancy in the Negro; statistical review (B. W. Robinson), 1951, **66,** *783
—— malignancy of special ovarian tumors (D. N. Henderson), 1952, **68,** 515 (ab)
—— malignant melanoma in infancy (P. E. Russo), 1949, **61,** 281 (ab)
—— management; possible application of isotopes (S. T. Cantril), 1951, **66,** 692 (ab)
—— manual for practitioners, 1951, **65,** 634 (bk. rev.)
—— maxillary antrum (R. McWhirter), 1951, **66,** 160 (ab)
—— maxillary antrum; radium treatment (S. Cade), 1948, **60,** *736
—— menorrhagia and vitamin B complex; critical review (R. R. Greene and B. M. Peckham), 1948, **59,** 767 (ab)
—— metachronous, of colon (F. W. Rankin and A. B. Conger, Jr.), 1952, **67,** 873 (ab)
—— metastases, bilateral ureteral obstruction caused by; case (J. J. Bottone, W. F. Ittner and V. J. Santare), 1951, **65,** 656 (ab)
—— metastases, cerebral, diagnosis by cerebran angiography (J. R. Green and R. Arana), 1948, **59,** *643
—— metastases, renal, roentgenographic appearance in bone (R. S. Sherman and A. T. Pearson), 1949, **62,** 298 (ab)
—— metastases, skeletal (H. L. Abrams), 1951, **66,** 511 (ab)
—— metastases to spinal colum; role of vertebral venous system (D. R. Coman and R. P. DeLong), 1952, **67,** 713 (ab)
—— metastatic, involving central nervous system; clinical analysis and outline of therapeutic principles; 88 cases (A. R. Elvidge and M. Baldwin), 1950, **64,** 706 (ab)
—— metastatic malignant lesions, pulmonary resection for (H. H. Seiler, O. T. Clagett and J. R. McDonald), 1951, **65,** 644 (ab)
—— metastatic, of lung; circulatory failure (O. Storstein), 1952, **68,** 999 (ab)
—— metastatic, of parathyroid gland with osteitis fibrosa cystica and extensive calcinosis (J. T. Ellis and D. P. Barr), 1952, **67,** 683 (ab)
—— metastatic, of ureter (L. E. McCrea and A. R. Peale), 1951, **66,** 869 (ab)

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—— metastatic mammary transplanted subcutaneously into foreign strains of mice; lack of progressive growth (R. T. Prehn), 1950, **64,** 901 (ab)
—— mouth (J. J. Conley), 1948, **59,** 770 (ab)
—— mouth, advanced; palliative procedures (G. Beckstrand), 1948, **60,** 859 (ab)
—— mouth and lip including cervical metastases; complete radiological care; (instruction course) (C. L. Martin), 1948, **60,** 126 (ab)
—— mouth; osseous metastases (F. Baclesse and C. Sarris), 1952, **67,** 317 (ab)
—— mouth; radiation therapy (instruction course) (C. L. Martin), 1949, **62,** 141
—— mouth; radiotherapeutic eradication with surgical repair (H. B. Hunt and D. H. Breit), 1948, **59,** *244
—— mouth; supervoltage roentgen therapy (M. D. Schulz), 1951, **66,** 152 (ab)
—— mouth, treated with irradiation alone (instruction course) (C. L. Martin), 1950, **64,** 134
—— mouth; treatment results, Holt Radium Institute, Manchester, 1928-1945 (R. Paterson), 1951, **66,** *524
—— mouth; treatment with fast neutrons; survival time (R. S. Stone), 1948, **59,** *778
—— multiple basal cell epitheliomas in 5 year old child (I. M. Scharnagel and G. T. Pack), 1950, **63,** 951 (ab)
—— multiple malignancy; report of case with synchronicity in kidney and bladder (H. L. Miller), 1951, **65,** 849 (ab)
—— multiple, of large bowel (R. H. Marshak), 1951, **65,** 842 (ab)
—— multiple primary neoplasms in gynecology; clinical features (V. Grünberger), 1950, **64,** 1048 (ab)
—— myxochondrosarcoma of talus (H. P. Longstreth, P. Blanco and S. Sanes), 1949, **62,** 307 (ab)
—— nasal; radiotherapeutic eradication with surgical repair (H. B. Hunt and D. H. Breit), 1948, **59,** *240
—— nasopharyngeal; experiences (V. P. Graham and R. R. Meyer), 1948, **60,** 858 (ab)
—— nasopharyngeal; 150 cases (M. W. Simmons and I. M. Ariel), 1950, **63,** 954 (ab)
—— nasopharyngeal; spontaneous pneumocephalus in case (L. Raider), 1951, **66,** *231
—— nasopharyngeal; treatment by irradiation (T. P. Eberhard and R. H. Leaming), 1951, **66,** 153 (ab)
—— nasopharyngeal; treatment, nitrogen mustard and urethane (F. E. Stock), 1952, **67,** 339 (ab)
—— nasopharyngeal tumors (J. I. M. Black), 1950, **64,** 315 (ab)
—— natural behavior in man; some observations (J. E. Dunphy), 1950, **64,** 876 (ab)
—— natural clinical course and radiocurability (M. Lenz), 1952, **67,** *428
—— neck, nonresectable; use of radioactive cobalt (A. G. James, R. D. Williams and J. L. Morton), 1952, **68,** 854 (ab)
—— neck, treated with irradiation alone (scientific exhibit) (C. L. Martin), 1950, **64,** 134
—— neck; treatment; dental aids (A. J. Ackerman), 1948, **59,** *539
—— neck; treatment with fast neutrons; survival time (R. S. Stone), 1948, **59,** *778; *780
—— neoplasms in rats treated with pituitary growth hormone; pulmonary and lymphatic tissues (H. D. Moon, M. E. Simpson, C. H. Li and H. M. Evans), 1951, **65,** 342 (ab)
—— nervous system, brain, spinal cord and peripheral nerves (H. C. Naffziger and E. B. Boldrey), 1949, **62,** 294 (ab)
—— new growths of kidney and ureter (E. W. Riches, I. H. Griffiths and A. C. Thackray), 1952, **68,** 838 (ab)
—— nonspecific granuloma of rectum and sigmoid colon which clinically simulated cancer but which responded to aureomycin therapy (M. S. Belle, S. Fox and R. Allen), 1952, **68,** 686 (ab)
—— numerical estimation in cancer and cancer treatment (J. C. Lees and T. W. Lees), 1951, **65,** 322 (ab)
—— occult bone metastases (R. Shackman and C. V. Harrison), 1949, **61,** 137 (ab)
—— of Bartholin's glands; radium therapy (H. H. Bowing, R. E. Fricke and T. J. Kennedy), 1949, **61,** *517
—— of extrahepatic bile ducts (H. A. Neibling, M. B. Dockerty and J. M. Waugh), 1950, **64,** 338 (ab)
—— of nasal cavity and sinuses (F. C. W. Capps and I. G. Williams), 1951, **66,** 286 (ab)
—— of rectum and low sigmoid colon; importance of level of lesion in prognosis and treatment (J. M. Wangle and J. W. Kirklin), 1950, **63,** 132 (ab)
—— of rectum and sigmoid; medial deviation of ureters complicating; proctosigmoidectomy (R. J. Spillane, T. F. Kaiser and G. C. Prather), 1952, **68,** 319 (ab)
—— of tail of pancreas; roentgenographic aspects (R. G. Willy and G. W. Drymalski), 1952, **68,** 513 (ab)
—— of thymus of granulomatous type (E. Lowenhaupt and R. Brown), 1952, **68,** 674 (ab)
—— of transverse colon in 15-year old boy (H. R. Fishback, Jr.), 1949, **61,** 431 (ab)
—— oral (B. G. Sarnat and I. Schour), 1952, **67,** 661 (bk. rev.)
—— oral, inoperable; control with massive roentgen therapy (G. White and W. R. Christensen), 1952, **68,** 702 (ab)
—— oral; treatment by combination of radiotherapy and surgery (H. Wookey, C. Ash, W. K. Welsh and R. A. Mustard), 1952, **68,** 531 (ab)
—— ovarian (N. S. Miller), 1949, **62,** 461 (ab)
—— ovarian (H. D. Kerr and H. B. Elkins), 1951, **66,** *184
—— ovarian arising in endometriosis (G. W. Corner, Jr., C. Y. Hu and A. T. Hertig), 1951, **65,** 299 (ab)
—— ovarian; clinical and pathological evaluation (F. C. Wheelock, R. H. Fennell, Jr. and J. V. Meigs), 1952, **68,** 335 (ab)
—— ovarian; results of experiments in 79 cases (L. H. Garland and M. A. Sisson), 1952, **67,** 876 (ab)
—— ovarian; rotational therapy with 2 million volt roentgen therapy (J. G. Trump and others), 1951, **66,** *622
—— ovarian; treatment results; data on age incidence of this disease (J. H. Marks and M. H. Wittenborg), 1949, **62,** 463 (ab)
—— ovarian; treatment with surgery and deep x-ray irradiation; end results (H. E. Schmitz and J. T. Majewski), 1952, **68,** 853 (ab)
—— palliation; radiation therapy (B. P. Widmann), 1951, **64,** *685
—— pancreatic; diagnostic and operative criteria based on 100 consecutive autopsies (S. Mikal and A. J. A. Campbell), 1952, **67,** 671 (ab)
—— pancreatic; diagnostic criteria (G. F. Dashiell and W. L. Palmer), 1949, **61,** 432 (ab)
—— pancreatic; functioning acinous cell with widespread

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focal fat necrosis (R. R. Osborne), 1951, **65,** 844 (ab)
—— pancreatic; radiological appearances (F. Pygott), 1951, **66,** 663 (ab)
—— pancreatic; roentgenologic findings (J. W. Beeler and B. R. Kirklin), 1952, **67,** *576
—— paranasal sinus; secondary alterations of frontal sinus (L. L. Haas), 1951, **66,** *797
—— parathyroid (D. K. O'Donovan, H. S. Meade and J. McGrath), 1952, **67,** 851 (ab)
—— parathyroid, with hyperparathyroidism (O. L. V. DeWesselow and H. F. DeWardener), 1950, **63,** 616 (ab)
—— parotid gland; single portal massive dose x-ray therapy technic (M. Friedman and L. A. Davis), 1952, **68,** 852 (ab)
—— parotid gland; treatment with fast neutrons; survival time (R. S. Stone), 1948, **59,** *780
—— parotid; histopathology, clinical behavior and end results (J. W. Kirklin, J. R. McDonald, S. W. Harrington and G. B. New), 1952, **67,** 840 (ab)
—— pelvic, advanced; care of patients (W. E. Costolow), 1948, **60,** 859 (ab)
—— pelvic, delay; organization and observations of Philadelphia committee for study of pelvic cancer (J. Y. Howson), 1949, **62,** 155 (ab)
—— pelvic; external irradiation planning (G. H. Fletcher), 1950, **64,** *95
—— pelvic; intravaginal roentgen therapy (W. W. Wasson and R. Greening), 1949, **61,** 874 (ab)
—— pelvic; partial and complete exenteration; progress report on first 100 operations (A. Brunschwig and V. K. Pierce), 1951, **66,** 687 (ab)
—— pelvic; treatment, radioactive colloidal gold (A. I. Sherman, J. F. Nolan and W. M. Allen), 1950, **64,** *75
—— pelvic; treatment, radioactive colloidal gold (A. I. Sherman, M. Bonebrake and W. M. Allen), 1951, **66,** *624
—— penis (H. Lenowitz and A. P. Graham), 1948, **59,** 604 (ab)
—— penis; radiotherapeutic eradication with surgical repair (H. B. Hunt and D. H. Breit), 1948, **59,** *245
—— penis; treatment at Norwegian Radium Hospital (R. B. Engelstad), 1948, **60,** *801
—— pharyngeal, excluding the nasopharynx (J. F. Simpson and G. Hilton), 1949, **62,** 904 (ab)
—— pharyngeal; osseous metastases (F. Baclesse and C. Sarris), 1952, **67,** 317 (ab)
—— pharyngeal; roentgen therapy (R. M. Caulk), 1952, **67,** *443
—— pharyngeal; treatment with fast neutrons; survival time (R. S. Stone), 1948, **59,** *777
—— pleural; radioactive isotopes in palliative management (E. M. Kent and C. Moses), 1952, **68,** 854 (ab)
—— pleural, spontaneous regression in breast cancer (B. A. Nohrman), 1950, **64,** 683 (ab)
—— pleural; treatment, radioactive gold (E. Pluygers), 1951, **66,** 332 (ab)
—— post-cricoid (C. K. Byrnes), 1951, **65,** 500 (ab)
—— preinvasive, of cervix uteri (E. R. Pund and S. H. Auerbach), 1948, **60,** 147 (ab)
—— premalignant lesions of ampulla of Vater (R. B. Cattell and J. P. Ludwig), 1950, **64,** 694 (ab)
—— prepyloric spasm simulating gastric malignancy (A. L. Cohn and R. L. Gold), 1950, **63,** 458 (ab)
—— primary facial; combined radical cervico-facial procedures for (I. MacDonald), 1950, **64,** 676 (ab)

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—— primary, in bladder diverticula (P. G. Smith and G. L. Suder), 1951, **65,** 991 (ab)
—— primary, of duodenal bulb mimicking duodenal ulcer (J. L. Chassin and J. W. Hinton), 1950, **64,** 163 (ab)
—— primary, of infrapapillary portion of duodenum (T. A. Shallow, F. B. Wagner, Jr. and W. B. Manges), 1950, **64,** 1044 (ab)
—— primary, of liver in boy aged 15 (A. E. Beynon), 1949, **62,** 291 (ab)
—— primary, of liver in hemochromatosis (S. Warren and W. L. Drake), 1952, **67,** 874 (ab)
—— primary, of lung; clinical study of 1205 cases (I. M. Ariel and others), 1950, **64,** 1037 (ab)
—— primary, of lung; diagnosis by cytological studies of sputum and bronchial secretions (S. M. Farber, M. A. Benioff and G. Tobias), 1949, **62,** 446 (ab)
—— primary, of lung often confused roentgenographically with chest lesions (P. C. Swenson and R. H. Leaming), 1950, **63,** *629
—— primary of lung; 10 year study at Presbyterian Hospital in City of New York (R. L. Moore), 1952, **67,** 857 (ab)
—— primary, of lung; etiology (E. A. Graham), 1952, **67,** 517 (ab)
—— primary, of lung, with special reference to apical lung tumors (J. J. Stein), 1948, **60,** *58
—— primary, of male urethra (E. M. Nanson), 1952, **68,** 321 (ab)
—— primary, of ureter (F. E. Stock and C. Wells), 1948, **60,** 719 (ab)
—— primary, of ureter (F. G. Harrison, H. L. Warres and J. A. Fust), 1950, **64,** 340 (ab)
—— primary, of uterus after healing of previous carcinoma of same organ treated by radiotherapy (J. M. Fernandez-Colmiero), 1950, **63,** 958 (ab)
—— primary, of vagina (B. P. Singh), 1952, **68,** 334 (ab)
—— primary operable breast cancer, hormone-treated; pathological study of 33 cases (J. T. Godwin and G. C. Escher), 1952, **67,** 707 (ab)
—— primary ovarian; diagnosis and treatment (J. H. Freed and E. P. Pendergrass), 1950, **63,** 144 (ab)
—— primary papillary, of ureter; 2 cases (N. G. Hale), 1949, **61,** 132 (ab)
—— primary sensory neuropathy with muscular changes associated with (D. Denny-Brown), 1949, **61,** 281 (ab)
—— primary ureteral; review and 2 cases (I. J. Carp and M. B. Jacobson), 1950, **64,** 703 (ab)
—— primary, vaginal; radium therapy (R. E. Fricke, H. H. Bowing and D. G. Decker), 1950, **64,** *86
—— program: radioisotopes, 1952, **68,** 300
—— prostatic (L. Guzman), 1949, **61,** 876 (ab)
—— prostatic; bone marrow studies (E. P. Alyea and R. W. Rundles), 1950, **64,** 709 (ab)
—— prostatic; case with unusual features (R. T. Burkitt), 1951, **65,** 163 (ab)
—— prostatic; diagnosis, serum phosphatase determinations (R. M. Nesbit and W. C. Baum), 1952, **67,** 530 (ab)
—— prostatic, endocrine control; 1818 cases (R. M. Nesbit and W. C. Baum), 1951, **66,** 137 (ab)
—— prostatic; 4th interim report (R. P. Beatty and A. E. Wright, Jr.), 1952, **67,** 678 (ab)
—— prostatic; further investigation of hormonal relationships (H. Brendler, W. E. Chase and W. W. Scott), 1951, **66,** 507 (ab)
—— prostatic, heterologous growth (M. S. Hovenanian and C. L. Deming), 1948, **60,** 579 (ab)

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—— prostatic; life expectancy; 5 year survey of 88 cases (R. P. Beatty), 1949, **61,** 134 (ab)
—— prostatic, meningeal metastases from; possible mechanism of production (A. de la Pena and A. Anselem), 1951, **65,** 495 (ab)
—— prostatic; metastases simulating mammary cancer under estrogenic therapy (J. H. Campbell and S. D. Cummins), 1952, **67,** 707 (ab)
—— prostatic, myelofibrosis and generalized osteosclerosis secondary to (J. Myhre and E. B. Flink), 1950, **64,** 172 (ab)
—— prostatic, osseous metastases from; effects of estrogenic therapy (W. C. MacCarty), 1949, **61,** 584 (ab)
—— prostatic; physiological importance of follicular hormone and estrogens (A. Butenandt), 1950, **63,** 950 (ab)
—— prostatic; pituitary irradiation (W. T. Murphy and H. Schwippert), 1952, **67,** 182 (ab)
—— prostatic; postmortem findings in 176 cases (F. K. Arnheim), 1949, **62,** 598 (ab)
—— prostatic; results of conservative management (L. R. Reynolds, T. L. Schulte and H. J. Hammer), 1951, **66,** 507 (ab)
—— prostatic (scientific exhibit) (R. H. Flocks, H. B. Elkins, D. Kerr and D. A. Culp), 1952, **68,** 822
—— prostatic; smear diagnosis (H. Peters and J. D. Young), 1952, **67,** 167 (ab)
—— prostatic; statistical study and evaluation of endocrine therapy with preliminary report on additional method of treatment (H. Q. Gahagan and J. L. Fischman), 1950, **63,** 281 (ab)
—— prostatic; study before and after advent of hormonal therapy (C. O. Miller, M. R. Buehrig and R. R. Haeger), 1951, **66,** 325 (ab)
—— prostatic; treatment with fast neutrons; survival time (R. S. Stone), 1948, **59,** *778; *781
—— prostatic; 12 year review (J. B. Wear and A. P. Schoenberger), 1948, **60,** 579 (ab)
—— prostatic, with secondary deposits in bone; medical aspects (M. H. Oelbaum), 1951, **63,** 307 (ab)
—— pulmonary (E. K. Frey), 1950, **63,** 947 (ab)
—— pulmonary, alveolar cell (N. C. Delarue and E. A. Graham), 1950, **63,** 449 (ab)
—— pulmonary, and smoking; preliminary report (R. Doll and A. B. Hill), 1951, **66,** 488 (ab)
—— pulmonary, and tuberculosis, co-existence (E. Muntean and R. Amon), 1951, **65,** 974 (ab)
—— pulmonary; angiocardiographic findings in 100 consecutive proved cases (I. Steinberg and C. T. Dotter), 1952, **68,** 1006 (ab)
—— pulmonary; angiocardiography in differential diagnosis (H. Neuhof, M. L. Sussman and R. A. Nabatoff), 1950, **63,** 452 (ab)
—— pulmonary, bilateral alveolar, associated with injection of thorotrast (S. Abrahamson, M. H. O'Connor and M. L. Abrahamson), 1951, **63,** 504 (ab)
—— pulmonary; broncho-pulmonary segment analysis in (B. R. Sreenivasan), 1952, **68,** 994 (ab)
—— pulmonary, cavitary form (F. Isaac and R. E. Ottoman), 1950, **64,** 152 (ab)
—— pulmonary; cerebral metastases (F. De Simone), 1951, **66,** 122 (ab)
—— pulmonary; clinical analysis and follow-up study of 502 cases (W. F. Rienhoff, Jr), 1950, **64,** 678 (ab)
—— pulmonary; cytologic diagnosis (S. M. Farber and others), 1951, **65,** 131 (bk. rev.)
—— pulmonary; cytologic diagnosis; evaluation (S. M. Farber, A. K. McGrath, M. A. Benioff and M. Rosenthal), 1951, **66,** 488 (ab)
—— pulmonary; cytologic study by means of bronchial secretions (P. Hernandez Gonzalo, V. Pardo Menendez, J. Miquel Franca and C. P. Mesa), 1950, **64,** 522 (ab)
—— pulmonary; cytology of sputum and bronchial secretions; 588 cases (L. B. Woolner and J. R. McDonald), 1949, **62,** 753 (ab); 1951, **66,** 838 (ab)
—— pulmonary; diagnosis and treatment (O. J. Cames and A. Cesanelli), 1950, **64,** 521 (ab)
—— pulmonary, diagnostic value of angiography (D. J. Schissel and P. G. Keil), 1952, **67,** *51
—— pulmonary; early diagnosis and treatment (R. H. Overholt and F. M. Woods), 1952, **68,** 505 (ab)
—— pulmonary; early diagnosis by tracheal aspiration (W. G. Cahan and H. W. Farr), 1951, **65,** 504 (ab)
—— pulmonary; hypertrophic osteoarthropathy in (J. D. Pattison, Jr., E. Beck and W. B. Miller), 1952, **67,** 858 (ab)
—— pulmonary, in Iceland (N. Dungal), 1951, **66,** 128 (ab)
—— pulmonary, inoperable; use of interstitial radon seeds and needles (I. M. Ariel, J. R. Head, H. T. Langston and E. E. Avery), 1950, **63,** 957 (ab)
—— pulmonary; lipoid pneumonia (non-inhalation) after radiotherapy (S. J. DeNavasquez, J. R. Trounce and A. B. Wayte), 1952, **67,** 1030 (ab)
—— pulmonary, minute; histological study believed to represent early bronchogenic carinoma (A. B. Petersen, W. C. Hunter and V. D. Sneedden), 1950, **64,** 324 (ab)
—— pulmonary; necessity for exploratory thoracotomy after negative bronchoscopy (H. Kaunitz), 1951, **65,** 827 (ab)
—— pulmonary; operability; angiocardiographic diagnosis (scientific exhibit) (C. T. Dotter, I. Steinberg and C. Holman), 1949, **62,** 737
—— pulmonary; operability; angiocardiographic study of 53 consecutive proved cases (C. T. Dotter, I. Steinberg and C. W. Holman), 1950, **64,** *222
—— pulmonary; pathologist's approach (A. R. Moritz), 1951, **66,** 845 (ab)
—— pulmonary, peripheral (instruction course) (L. W. Paul and J. H. Juhl), 1951, **66,** 272
—— pulmonary; roentgen diagnosis of intrathoracic lymph node metastases in (J. J. McCort and L. L. Robbins), 1952, **68,** 499 (ab)
—— pulmonary; severe hypertrophic pulmonary osteoarthropathy; operation and recovery (J. R. Fischl), 1950, **64,** *42
—— pulmonary; suspects in mass chest x-ray survey; follow-up study (C. L. Scamman), 1952, **67,** 506 (ab)
—— pulmonary; symptomatic arthritis due to hypertrophic pulmonary osteoarthropathy; 7 cases (H. H. Holmes, E. Bauman and C. Ragan), 1951, **65,** 995 (ab)
—— pulmonary, terminal bronchiolar or "alveolar cell"; 33 cases (W. L. Watson and R. R. Smith), 1952, **68,** 499 (ab)
—— pulmonary, traumatic; pathogenesis of cicatricial lung carcinoma (J. Dahmann), 1952, **68,** 680 (ab)
—— pulmonary; treatment by means of artificial radioactivity (Zn 63 and Au 198) (J. H. Muller and P. H. Rossier), 1952, **67,** 703 (ab)
—— pulmonary, with acanthosis nigricans; case (P. W. Spear), 1951, **66,** 293 (ab)

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—— quantitative analysis of direct and indirect action of x-radiation on malignant cells (I. Lasnitzki), 1949, **61,** 287 (ab)
—— quantitative histological analysis of radiation effects (B. Wolff and F. Ellis), 1949, **61,** 288 (ab)
—— radiation necrosis of jaw (E. M. Daland), 1950, **63,** 285 (ab)
—— radiation, of pharynx (A. W. G. Goolden), 1952, **68,** 703 (ab)
—— radiation therapy; changes in coagulability of blood; use of modified Waugh-Ruddick test (S. B. Silverman), 1949, **62,** *541
—— radiation tolerance and time factor (M. Lenz), 1952, **67,** *432
—— radiocurability (M. Lenz), 1952, **67,** *428
—— radiosensitivity and radiocurability (M. Lenz), 1952, **67,** *430
—— radiotherapeutic eradication with surgical repair of subsequent ulceration and deformity (H. B. Hunt and D. H. Breit), 1948, **59,** *229
—— rectal; anterior resection (J. H. Garlock and L. Ginzburg), 1951, **65,** 842 (ab)
—— rectal; 5 and 10 year follow-up study of cases of cancer below the peritoneal reflection (D. B. Pfeiffer and D. B. Miller), 1951, **66,** 501 (ab)
—— rectal; heterotopic ossification in an area of metastases from (H. R. Senturia, S. E. Schechter and B. Hulbert), 1948, **60,** *507
—— rectal; prognosis (B. P. Colcock), 1948, **59,** 588 (ab)
—— rectal; relation of rectal polyps to (J. R. Colvert), 1949, **61,** 125 (ab)
—— rectal, silent; cauda equina syndrome due to (R. J. Gross), 1950, **64,** 164 (ab)
—— rectal; treatment, radium and roentgen rays; new technic (E. Daubresse), 1952, **67,** 326 (ab)
—— refresher course on malignant disease, 1952, **68,** 474
—— relation to diverticular sigmoiditis (C. Bonorino Udaondo and V. D'Alotto), 1951, **66,** 499 (ab)
—— renal (H. L. Kretschmer), 1951, **66,** 670 (ab)
—— renal, distant metastases; secondary metastatic pulsations from renal tumor (B. C. Nolle, Jr.), 1948, **59,** 592 (ab)
—— research; availability of radioisotopes free of production costs by Atomic Energy Commission, 1949, **61,** 729
—— research; distribution of certain radio-isotopes without charge, 1948, **59,** 744
—— research exchange fellowships, British-American, 1950, **64,** 853
—— research fundamentals; symposium, 1952, **68,** 298
—— research program, Atomic Energy Commission, 1950, **64,** 141
—— residual or recurrent, factor in chronic ulceration after irradiation (H. B. Hunt and D. H. Breit), 1948, **59,** *13
—— respiratory system, in U.S. chromate producing industry (W. Machle and F. Gregorius), 1949, **62,** 446 (ab)
—— response to radiation, factors influencing (C. A. P. Wood), 1950, **63,** 948 (ab)
—— retroperitoneal emphysema from perforation of an intraperitoneal viscus (G. J. Culver and J. P. Concannon), 1951, **65,** 980 (ab)
—— role of spongy osseous tissue in neoplastic dissemination (Gil y Gil), 1952, **68,** 843 (ab)
—— salivary gland; skeletal and intrathoracic metastases; roentgen study (D. Wilner), 1951, **66,** 675 (ab)

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—— scalp; radiotherapeutic eradication with surgical repair (H. B. Hunt and D. H. Breit), 1948, **59,** *239
—— sclerosing, of stomach, and linitis plastica (K. Røjel), 1950, **64,** 162 (ab)
—— secondary, of phalanges (F. W. Brason, E. G. Eschner, S. Sanes and G. Milkey), 1952, **68,** 844 (ab
—— selected papers from Royal Cancer Hospital and Chester Beatty Research Institute, 1952, **67,** 126 (bk. rev.)
—— seminar, Jacksonville, Fla., Nov. 12-14, 1947 (J. A. Beals), 1948, **59,** 299
—— seminar, Penrose Cancer Hospital, 1950, **64,** 306; 1951, **66,** 279; 1952, **68,** 298
—— sigmoid, with prolonged liver metastases; 26 years' survival (H. A. Solomon and S. I. Kreps), 1951, **66,** 499 (ab)
—— significance of nipple discharge (W. T. Fitts, Jr., J. D. Maxwell and R. C. Horn, Jr.), 1952, **67,** 852 (ab)
—— simulating pulmonary tuberculosis (L. E. Siltzbach), 1949, **61,** 576 (ab)
—— skin; influence of dosage on success of treatment (C. H. Hale and G. W. Holmes), 1949, **61,** 583 (ab)
—— skin, involving cartilage; roentgen treatment (L. M. Levi), 1949, **61,** *380
—— skin; radiation therapy (instruction course) (B. P. Widmann), 1948, **60,** 127 (ab)
—— skin; radium therapy (S. Cade), 1948, **60,** *738
—— skin; radiotherapeutic eradication with surgical repair (H. B. Hunt and D. H. Breit), 1948, **59,** *246
—— skin; single exposures of superficial x-rays (L. J. Mallender), 1951, **65,** 326 (ab)
—— skin; statistical report (H. J. Ullmann), 1948, **59,** (ab)
—— skin; treatment (G. S. Sharp and F. C. Binkley), 1952, **67,** *606
—— skin; treatment (instruction course) (J. A. del Regato), 1950, **66,** 267
—— skin; treatment, thorium X (scientific exhibit) (J. J. Shers and W. E. Howes), 1950, **64,** 849
—— skin; treatment with fast neutrons; survival time (R. S. Stone), 1948, **59,** *781
—— skin; treatment with podophyllin (M. Sullivan), 1950, **64,** 368 (ab)
—— small bowel (S. D. Likely, J. R. Lisa, M. H. Stitch and H. D. Stein), 1949, **62,** 911 (ab)
—— small intestinal (H. P. Doub), 1949, **61,** 738 (ab)
—— Southeastern States cancer seminar, 1951, **66,** 826
—— spheno-orbital space; unilateral changes in anterior clinoid due to (H. Fischgold, D. Prot and A. Fissore), 1952, **67,** 134 (ab)
—— squamous cell; dose-time relationship for cure (J. R. Andrews and T. O. Coppedge), 1951, **65,** *934
—— squamous cell; dose-time relationship for cure (scientific exhibit) (J. R. Andrews and T. O. Coppedge), 1950, **64,** 850
—— squamous cell, of cervix; treatment results (J. H. Holzaepfel), 1952, **67,** 693 (ab)
—— squamous cell, of mouth and oropharynx produced by fractionated external roentgen irradiation; histologic changes (J. W. Hall and M. Friedman), 1949, **62,** 611 (ab)
—— squamous cell, of nail bed (V. H. Ellis), 1949, **62,** 599 (ab)
—— squamous cell, of renal pelvis (H. Q. Gahagan and W. K. Reed), 1950, **64,** 170 (ab)

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—— squamous cell; rare form of malignant joint tumor (A. Sonnenschein), 1952, **68,** 159 (ab)
—— squamous cell; treatment by irradication; role of tumor bed (A. Glucksmann), 1951, **65,** 667 (ab)
—— supracardiac, of stomach (F. Moutier and A. Nemours), 1950, **63,** 456 (ab)
—— surgery; radioactive cobalt as adjunct to (A. G. James, R. D. Williams and J. L. Morton), 1952, **67,** 1031 (ab)
—— Teaching Days, 1949, **61,** 861
—— teaching day, Hermann M. Biggs Memorial Hospital, Ithaca, N. Y., Jan. 19, 1949, 1949, **61,** 420
—— teaching models permitting palpation (scientific exhibit) (L. B. Goldman and A. Belskie), 1948, **60,** 551
—— testicular (O. Auerbach, O. A. Brines and A. Yaguda), 1948, **59,** 456 (ab)
—— testicular (P. F. J. Hickinbotham), 1951, **65,** 992 (ab)
—— testicular; radiotherapy (G. Boden and R. Gibb), 1952, **68,** 853 (ab)
—— testicular; roentgen therapy (E. T. Leddy), 1948, **60,** *39
—— testicular, with metastases to bone; 2 cases, one in a pseudohermaphrodite (J. O. Lafferty and E. P. Pendergrass), 1950, **63,** *95
—— therapeutic use of radioactive elements in malignancy (P. F. Hahn and C. W. Sheppard), 1948, **60,** 585 (ab)
—— therapy, betatron (T. A. Watson and C. C. Burkell), 1952, **68,** 701 (ab)
—— throat; supervoltage roentgen therapy (M. D. Schulz), 1951, **66,** 152 (ab)
—— thyroid (R. Ward), 1948, **60,** 851 (ab)
—— thyroid (W. H. Cole, B. P. Slaughter and J. D. Majarakis), 1950, **64,** 358 (ab)
—— thyroid (G. E. Ward, J. W. Hendrick and R. G. Chambers), 1951, **65,** 641 (ab)
—— thyroid (J. W. Hendrick, G. E. Ward and R. G. Chambers), 1951, **65,** 825 (ab)
—— thyroid, and its metastases treated with radioactive iodine (J. Chester, P. Lerch and A. Vannotti), 1951, **66,** 693 (ab)
—— thyroid; concentration of I^{131} shown by radioautography (P. J. Fitzgerald, F. W. Foote, Jr. and R. F. Hill), 1950, **64,** 363 (ab)
—— thyroid; exploration by means of radioactive iodine; 85 cases (R. Coliez, M. Tubiana, J. Dutreix and J. Guelfi), 1952, **68,** 857 (ab)
—— thyroid, functional; radioactive iodine studies (V. K. Frantz, E. H. Quimby and T. C. Evans), 1950, **63,** 296 (ab)
—— thyroid, in children; 10 year follow-up (H. F. Hare and R. V. Newcomb), 1951, **65,** 144 (ab)
—— thyroid, in children; 28 cases (B. J. Duffy, Jr. and P. J. Fitzgerald), 1951, **66,** 1014 (ab)
—— thyroid, in youth (R. C. Horn, Jr., and I. S. Ravdin), 1952, **68,** 537 (ab)
—— thyroid, malignant tumors (B. McSwain and W. Diveley), 1950, **63,** 438 (ab)
—— thyroid, metastatic; experimental therapy with I^{131} (L. D. Marinelli, J. B. Trunnell, R. F. Hill and F. W. Foote), 1950, **63,** 296 (ab)
—— thyroid; morphological form and tracer pattern in thyroid malignancy (scientific exhibit) (W. L. Brosius, L. Reynolds, K. E. Corrigan and H. S. Hayden), 1952, **68,** 826
—— thyroid; multiple metastases and pathological fracture successfully treated with radioiodine (J. Sorrentino, B. Roswit and R. Yalow), 1952, **68,** 853 (ab)

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—— thyroid, of base of tongue (S. Bachi), 1950, **64,** 519 (ab)
—— thyroid; rotational therapy with 2 million volt roentgen therapy (J. G. Trump and others), 1951, **65,** *622
—— thyroid; symposium (instruction course) (H. F. Hare), 1949, **62,** 140
—— thyroid; treatment, radioactive iodine; limitations and indications (R. W. Rawson, J. E. Rall and W. Peacock), 1952, **68,** 538 (ab)
—— thyroid, treatment, radioiodine (R. Paterson), 1951, **66,** 329 (ab); preliminary report (H. C. Warrington), 1951, **66,** 330 (ab)
—— thyroid; 10 to 20 year follow-up (H. F. Hare and F. A. Salzman), 1950, **63,** *881
—— thyroid, treatment with radioactive iodine; 119 cases (B. M. Dobyns and F. Maloof), 1952, **68,** 708 (ab)
—— thyroid; what nodules are to be feared? (O. Cope, B. M. Dobyns, E. Hamlin, Jr. and J. Hopkirk), 1950, **64,** 362 (ab)
—— tongue; clinical study of 277 cases treated at Radiumhemmet, 1931-1942 (F. Jacobsson), 1951, **65,** 289 (bk. rev.)
—— tongue, irradiation (C. P. Donlan), 1948, **60,** *511
—— tongue; radiotherapy; end results (J. Baud), 1950, **63,** *701
—— tongue; radium treatment (S. Cade), 1948, **60,** *735
—— tongue; review of 330 cases (M. I. Gibbel, J. H. Cross and I. M. Ariel), 1950, **63,** 953 (ab)
—— tongue; study of cases treated at University Hospitals, Iowa City, Iowa, 1930-1944 (H. B. Elkins), 1952, **68,** *81
—— tongue; treatment (A. Jentzer), 1951, **65,** 329 (ab)
—— tongue; treatment, interstitial radium and/or external roentgen therapy (L. Guzman), 1951, **66,** 1016 (ab)
—— tongue; treatment, radium, teleradium and interstitial radium (S. Cade), 1950, **63,** *716
—— tongue; treatment, teleradium; end results (E. Berven), 1950, **63,** *712
—— tongue; treatment with fast neutrons; survival time (R. S. Stone), 1948, **59,** *778
—— tongue; treatment with 10 gram radium beam unit; technic and results (C. A. P. Wood), 1950, **63,** *727
—— tonsil; review and results in 90 cases (H. J. Walker and M. D. Schulz), 1949, **61,** 582 (ab)
—— tracheal; tracheographic diagnosis (A. Tänzer and A. Beutel), 1952, **68,** 1009 (ab)
—— treatment, ACTH and cortisone (T. D. Spies and others), 1951, **66,** 165 (ab)
—— treatment, betatron (T. A. Watson and C. C. Burkell), 1952, **68,** 873 (ab)
—— treatment by radiotherapy and/or surgery; ratio (R. Paterson), 1951, **66,** *525
—— treatment by 22 MeV x-rays; physical aspects (H. E. Johns, E. K. Darby and R. O. Kornelsen), 1952, **68,** 348 (ab)
—— treatment, cobalt 60 (scientific exhibit) (J. L. Morton, W. G. Meyers, G. W. Callendine and A. C. Barnes), 1950, **64,** 850
—— treatment; coordination of surgical and radiation therapy (H. Zacherl), 1951, **66,** 515 (ab)
—— treatment of malignant disease by radium and x-rays (R. Paterson), 1949, **61,** 863 (bk. rev.)
—— treatment; present results (R. Paterson and M. Tod), 1950, **64,** 892 (ab)
—— treatment, radiation (200, 400 and 1,000 kv.); some

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observations (W. T. Murphy and M. C. Reinhard), 1951, **66,** 1013 (ab)
—— treatment; radical surgery (A. O. Whipple), 1951, **66,** 151 (ab)
—— treatment; radium and physics (S. Cade), 1948, **60,** *732
—— treatment; roles of surgery and radiology (L. H. Garland), 1949, **62,** *858
—— treatment, urethane (L. Berman and A. Axelrod), 1949, **61,** 286 (ab)
—— treatment with nitrogen mustard (L. K. Alpert, E. M. Greenspan and S. S. Peterson), 1950, **64,** 894 (ab)
—— ulcerated neoplasms of stomach; roentgen findings (F. Cesarani), 1950, **64,** 690 (ab)
—— untreated; duration of life (M. B. Shimkin), 1952, **67,** 688 (ab)
—— upper air passages; radium treatment (S. Cade), 1948, **60,** *735
—— upper respiratory tract; single portal massive dose x-ray technic (M. Friedman and L. A. Davis), 1952, **68,** 852 (ab)
—— urethral (E. W. Riches and T. H. Cullen), 1952, **68,** 518 (ab)
—— urethral, female; radium therapy (R. E. Fricke and J. T. McMillan), 1950, **63,** 615 (ab)
—— uterine, after hysterectomy (J. F. Hynes), 1948, **60,** *371
—— uterine; age incidence; review of 296 cases, 1935-1944 (J. F. Hynes), 1948, **60,** *370
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—— of tumors; systemic pathological effects of nitrogen mustards (B. H. Landing and others), 1950, **64,** 365 (ab)
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Chesky, V. E., Dreese, W. C., and **Hellwig, C. A.:** Hürthle cell tumors of thyroid gland; report on 25 cases, 1952, **68,** 1003 (ab)
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—— chick embryos and developing; effects of continuous radiation on (S. Warren and F. L. Dixon), 1950, **63,** 626 (ab)
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—— and **Young, A. W.:** Pneumographic diagnosis of intraventricular epidermoid, 1949, **62,** 150 (ab)
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—— adenoma of bronchus in 9 year old child (S. Smoller and A. de L. Maynard), 1952, **68,** 998 (ab)
—— advanced pulmonary tuberculosis; treatment, aerosol streptomycin (J. B. Miller, H. A. Abramson and B. Ratner), 1951, **66,** 292 (ab)
—— alimentary abnormalities (scientific exhibit) (E. B. Singleton and J. F. Holt), 1952, **68,** 824
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—— chest x-rays; interpretation (L. G. Blair), 1949, **61,** 121 (ab)
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—— chronic subdural hematoma; diagnosis (J. W. D. Bull), 1950, **63,** 436 (ab)
—— congenital cystic disease of lung (M. M. Ravitch and J. B. Hardy), 1950, **63,** 945 (ab)
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—— congenital obstructions of alimentary tract; errors of rotation of mid-gut (F. N. Silverman and J. Caffey), 1950, **64,** 547 (ab)
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—— danger from shoe-fitting fluoroscopes, 1950, **63,** 624 (ab)
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—— ectopic ureter in childhood; 4 personal cases (A. J. Alldred and T. T. Higgins), 1952, **67,** 677 (ab)
—— elbow fractures (W. P. Blount and R. H. Cassidy), 1952, **67,** 1022 (ab)
—— embryonal rhabdomyosarcoma of head and neck (G. D. Stobbe and H. W. Dargeon), 1951, **66,** 831 (ab)
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—— extreme hypertension in a child cured by nephrectomy (B. M. Gasul, J. M. Glasser and A. Grossman), 1949, **62,** 761 (ab)
—— fractures; conservative treatment (R. T. Odell and S. M. Leydig), 1952, **67,** 533 (ab)
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—— fractures of lower end of humerus (D. P. McDonnell and J. C. Wilson), 1949, **61,** 138 (ab)
—— fractures of neck of femur; clinical study (G. Allende and L. G. Lezama), 1952, **67,** 681 (ab)
—— gastric ulcer (J. F. Martin and H. F. Saunders), 1951, **66,** 496 (ab)
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—— improved excretory urography (L. P. Matthei), 1951, **66,** 306 (ab)
—— infections of tonsils and post-pharyngeal tissues; roentgen treatment (A. F. Rossitto), 1949, **61,** 438 (ab)
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—— juvenile osteopetrosis; metabolic studies and observations on composition of bones in the disease (J. B. Pincus, I. F. Gittleman and B. Kramer), 1948, **59,** 761 (ab)
—— kerosene intoxication (E. S. Reed, S. Leikin and H. D. Kerman), 1951, **65,** 147 (ab)
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—— leukemias and lymphomas; treatment, ACTH and cortisone (C. E. Snelling, W. L. Donohue, B. Laski and S. H. Jackson), 1952, **68,** 168 (ab)
—— leukemia in (J. H. Dale), 1950, **63,** 281 (ab)
—— leukemia in; treatment, ACTH and cortisone (I. Schulman, J. T. Lanman, O. E. Laxdal and L. E. Holt, Jr.), 1952, **68,** 168 (ab)
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—— leukemic, treated with aminopterin; skeletal lesions (F. E. Karpinski, Jr. and J. F. Martin), 1951, **66,** 314 (ab)
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—— osteonephropathy in (J. J. Cancelmo and R. S. Bromer), 1951, **65,** *889
—— osteosarcomas of long bones in the young (excluding Ewing's tumor); roentgen therapy (F. Baclesse and G. Herlory), 1951, **66,** 517 (ab)
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—— position of aortic arch and descending aorta; roentgenologic signs (R. Ash), 1952, **67,** *924
—— prepubertal melanoma of skin (G. T. Pack), 1949, **61,** 870 (ab)
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—— pulmonary tuberculosis, primary complex (A. D. Biggs), 1951, **66,** 853 (ab)
—— recurrent small intestinal intussusception (M. D. Teitelbaum and N. Arenson), 1950, **63,** *80
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—— school, nutritional status; carpal and epiphysial development as index (O. D. Abbott, R. O. Townsend, R. B. French and C. F. Ahmann), 1950, **64,** 713 (ab)
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—— significance of triangular hilar shadows in roentgenograms (R. M. Harvey and R. S. Bromer), 1948, **59,** *845
—— sinobronchitis (S. G. Schenck and M. Seldowitz), 1952, **67,** *240
—— skeletal age limits of apparently normal 6 year old children; radiologist's opinions (R. W. House), 1950, **64,** *442
—— skeletal age; red graph method (S. I. Pyle and others), 1948, **60,** 582 (ab)

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—— subacute sinusitis; roentgen treatment (D. R. Laing), 1948, **60,** 858 (ab)
—— thyroid cancer; 10-year follow-up (H. F. Hare and R. V. Newcomb), 1951, **65,** 144 (ab)
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—— tuberculosis (E. Krieger and J. Lapan), 1951, **66,** 842 (ab)
—— tuberculosis of anterior pelvic girdle (pubis and ischium) (G. Seghini), 1951, **66,** 312 (ab)
—— tuberculosis of hip; 58 cases with special reference to fusion (H. I. Yu), 1951, **66,** 1003 (ab)
—— tuberculosis of knee joint; difficulties of differential diagnosis (E. Martens), 1950, **64,** 715 (ab)
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—— tumors, mixed, of kidney; treatment (R. E. Gross and E. B. D. Neuhauser), 1951, **66,** 688 (ab)
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—— Cooley's erythroblastic anemia in 2 Chinese boys (L. B. Gardner), 1948, **60,** 856 (ab)
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Cholangiography, acute pancreatitis after (P. Gaillard), 1951, **65,** 844 (ab)
—— and biliary regurgitation (L. G. Rigler and H. W. Mixer), 1949, **61,** 279 (ab)
—— immediate; indications, technic and illustrative cases (R. F. Carter and L. Gillette), 1951, **65,** 846 (ab)
—— in odditis (J. M. Urrutia and P. Lavezzo), 1951, **66,** 866 (ab)
—— in stone stricture and operative injury of biliary ducts (C. R. Hughes, J. R. Hannon and B. E. Mulvey), 1949, **62,** 910 (ab)
—— injection of canal of Wirsung during; 18 cases (Y. Salembier and R. Lepan), 1952, **68,** 681 (ab)
—— modified technic and use of new contrast medium (rayopake) for visualization of biliary tree (S. H. Macht), 1951, **65,** 156 (ab)
—— of congenital absence of gallbladder (A. J. H. Rains), 1952, **67,** 1016 (ab)
—— operating room (B. F. Lounsbury, T. C. Douglass and W. C. Carroll), 1951, **66,** 495 (ab)
—— operative; evaluation of 406 cases (C. G. Mixter, L. Hermanson and A. L. Segel), 1952, **68,** 313 (ab)
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—— postoperative; technic, indications and value (N. F. Hicken, A. J. McAllister, B. Franz and E. Crowder), 1951, **65,** 988 (ab)
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—— postcholecystectomy sequelae (A. J. Lasala), 1952, **68,** 1013 (ab)
—— pulmonary changes after (I. Rudnikoff and C. I. Headland), 1952, **67,** 837 (ab)
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—— acute gaseous (G. J. Culver and J. R. Kline), 1949, **62,** 287 (ab)
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—— sigmoid, volvulus (R. M. Pool and W. D. Dunavant), 1952, **67,** 670 (ab)
—— so-called irritable; functional complaint confronting gastroenterologist (H. L. Bockus), 1951, **65,** *860
—— submucous lipomas (R. R. Bigelow and A. J. Anlyan), 1950, **63,** 771 (ab)
—— suprahepatic interposition and volvulus of cecum (J. Torgersen), 1951, **66,** *747
—— survey examination with barium and tannic acid (scientific exhibit)) (G. M. Wyatt), 1951, **66,** 820
—— transverse, cancer, in 15-year-old boy (H. R. Fishback, Jr.), 1949, **61,** 431 (ab)
—— transverse, congenital obstruction (N. Safran and A. M. Greenberg), 1952, **68,** 686 (ab)
—— unusual segmental dilatation in fulminating chronic ulcerative colitis; case (M. S. Madison and J. A. Bargen), 1951, **66,** 863 (ab)
—— volvulus of (W. H. Gerwig, Jr.), 1951, **65,** 651 (ab)

Colonmetrography studies of effects of section of parasympathetic nerves of colon (W. H. Scott and J. R. Cantrell), 1950, **64,** 370 (ab)

Color as teaching aid for diagnostic roentgenology (E. L. Pirkey, J. E. Parker, Jr. and F. W. Shook), 1952, **68,** 169 (ab)
—— charts of finger nail polish (Cutex); use to note changes in treated hemangiomas (E. P. Pendergrass, J. C. Katterjohn and J. B. Butchart), 1948, **60,** *186
—— in radiography (G. E. Donovan and G. Jones), 1952, **68,** 354 (ab)

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Colostomy, new method for obtaining barium enemas (F. S. Cross), 1952, **68,** 317 (ab)
—— roentgen examination of colon after; device for (J. C. Root and A. A. Rayle, Jr.), 1951, **65,** 682 (ab)

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Colp, R.: Surgical treatment of gastric, duodenal and gastrojejunal ulcer; including present status of vagotomy, 1949, **62,** 756 (ab)
Colpostat for radium treatment of cancer of cervix (S. DiPalma), 1952, **67,** 325 (ab)
—— new type, for radium therapy of cancer of cervix uteri (S. M. Silverstone, W. Harris and M. Greenberg), 1952, **67,** *294
Colsen, K.: Atlanto-axial fracture-dislocation, 1950, **64,** 174 (ab)
Colson, G. M., and **Willcox, A.:** Phalangeal metastases in bronchogenic carcinoma; report of 3 cases, 1948, **60,** 855 (ab)
Coltman, J. W.: Fluoroscopic image brightening by electronic means, 1950, **63,** 148 (ab)
Columella, F.: See **Mucchi, L.,** jt. auth.
Colvert, J. R.: Rectal polyps; diagnosis, five year follow-up and relation to carcinoma of rectum, 1949, **61,** 125 (ab)
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Coman, D. R., and **DeLong, R. P.:** Role of vertebral venous system in metastasis of cancer to spinal column, 1952, **67,** 713 (ab)
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Comfort, M. W., Gambill, E. E., and **Baggenstoss, A. H.:** Chronic relapsing pancreatitis, 1948, **59,** 453 (ab)
—— **Gray, H. K.,** and **Wilson, J. M.:** Silent gallstone; ten to twenty year follow-up study of 112 cases, 1949, **62,** 595 (ab)
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Compere, E. L.: Avascular necrosis of large segmental fracture fragments of long bones, 1949, **62,** 766 (ab)
Complement-fixation tests in multiple myeloma; Bence-Jones proteinemia during; 4 cases (F. C. Collier, A. Reich and J. W. King), 1952, **68,** 843 (ab)
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—— precision; use in peroral irradiation (S. G. Castigliano and D. M. Sklaroff), 1950, **64,** *968
—— roentgen therapy; penumbra effect (A. Raventos and G. S. Schwartz), 1951, **66,** 1026 (ab)
—— malleable, for roentgen therapy (R. S. Leighton), 1949, **61,** *245
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Conforti, V. P.: See **Heublein, G. W.,** jt. auth.
Conger, A. B., Jr.: See **Rankin, F. W.,** jt. auth.
Congiu, A.: Direct roentgen signs of hydatid cysts of liver, 1950, **64,** 551 (ab)
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Conjunctiva and corneal calcification in hypercalcemia (F. G. Fleischner and S. R. Shalek), 1950, **63,** 435 (ab)
—— lymphoma (M. D. Schulz and P. Heath), 1949, **62,** 280 (ab)
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—— tuberculosis; bipolar pneumono-ganglionar complex by premature hematogenous dissemination (R. F. Vaccarezza and J. R. Paso), 1950, **63,** 447 (ab)
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—— vernal; use of Sr90 beta ray applicator (H. L. Friedell, C. I. Thomas and J. S. Krohmer), 1951, **65,** *239
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Conley, J. W., and **Rand, C. W.:** Spontaneous subarachnoid hemorrhage occurring in non-eclamptic pregnancy, 1952, **68,** 516 (ab)
Connar, R. G., Ferguson, T. B., Sealy, W. C., and **Conant, N. F.:** Nocardiosis; report of single case with recovery, 1952, **68,** 504 (ab)
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Connor, C. E.: Solitary extramedullary plasmocytoma, 1948, **59,** 602 (ab)
Console, A. D.: See **Ray, B. S.,** jt. auth.
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Constant, G. A.: See **Hauser, E. D. W.,** jt. auth.
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—— Dupuytren's; treatment (L. Söderberg), 1952, **67,** 330 (ab)
Contrast angiography; improved vertical and horizontal multiple cassette changers (J. A. Campbell and P. B. Lockhart), 1951, **65,** 340 (ab)
—— double; one-stage method for study of colon (R. D. Moreton, E. M. Cooper and E. F. Foegelle), 1952, **67,** 160 (ab)
—— double, in inflation of stomach; roentgen study (F. F. Ruzicka, Jr. and L. G. Rigler), 1952, **67,** 155 (ab)
—— methods, roentgen, of liver and spleen; simple method (S. Zelman), 1952, **67,** 162 (ab)
—— visualization of aneurysms; technic and method of simultaneous visualization of aneurysm in two planes (F. M. Seibert), 1952, **67,** 1025 (ab)
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—— Annual Lipiodol Awards (1948), 1948, **60,** 848
—— behavior of carob gum in gastrointestinal tract of man (A. A. Holbrook), 1951, **66,** 859 (ab)
—— bismjol in retrograde pyelography (L. Bondani), 1950, **64,** 340 (ab)
—— clinical studies (E. L. Pirkey, E. S. Reed and W. H. Smith), 1951, **66,** 150 (ab)
—— colloidal thorium dioxide, faulty elimination (M. E. Jorge and J. A. Aguirre), 1952, **67,** 324 (ab)
—— complications of angiography (R. Dunsmore, W. B. Scoville and B. B. Whitcomb), 1951, **66,** 836 (ab)
—— contrast myelography, past and present (J. D. Camp), 1951, **65,** 303 (ab)
—— demonstration of cerebral blood vessels with viscous perabrodil M 35% solution (K. Albrecht and W. Dressler), 1952, **67,** 843 (ab)
—— diagnosis of lumbar intervertebral disc lesions; contraindications (H. W. Gillespie), 1948, **59,** 467 (ab)
—— diodrast; experimental study of cardiovascular

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—— double contrast studies of colon with special reference to preparation and fictitious polyps (C. W. Yates, R. D. Moreton and E. M. Cooper), 1951, **66,** 500 (ab)
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—— evaluation for cerebral angiography; experimental evaluation; electroencephalographic and histopathological correlations (B. M. Bloor, F. R. Wrenn, Jr. and G. Margolis), 1952, **68,** 866 (ab)
—— experimental method for evaluation in cerebral angiography (B. M. Bloor, F. R. Wrenn, Jr. and G. J. Hayes), 1952, **68,** 342 (ab)
—— for cerebral angiography with reference to possible injurious effects on cerebral blood vessels; experimental study (T. Broman and O. Olsson), 1950, **63,** 434 (ab)
—— harmful effects after percutaneous arteriography (K. Kloss and C. Radlinger), 1951, **66,** 677 (ab)
—— hysterosalpingography with viscous hydrosoluble organic iodide substances (J. Pulsford and R. Palmer), 1950, **63,** 135 (ab)
—— in cerebral angiography (thorotrast and diodrast) (J. R. Green and R. Arana), 1948, **59,** *625
—— in cerebral angiography; injurious factors (T. Broman, B. Forssman and O. Olsson), 1951, **66,** 333 (ab)
—— in examination of intervertebral discs of lower lumbar spine (O. Perey), 1951, **66,** 991 (ab)
—— injections; antihistaminic drugs for inhibiting untoward reactions (O. Olsson), 1951, **66,** 1028 (ab)
—— intravenous urographic; controlled study of diodrast and neo-iopax (W. H. Mullen, Jr. and C. R. Hughes), 1952, **68,** *903
—— iodinated organic compounds for radiographic diagnosis (W. E. Chalecke and others; M. P. George, E. B. Mahoney, H. E. Pearse and W. H. Strain; G. E. Jones and others), 1949, **61,** 586 (ab)
—— iodized substance (Savac) in arteriography and phlebography (A. Calme), 1949, **62,** 310 (ab)
—— ioduron B bronchography (A. Baranger, P. Delie and J. M. Lemoine), 1951, **65,** 500 (ab)
—— ioduron B bronchography (F. K. Fischer), 1951, **65,** 829 (ab)
—— ioduron-S for hysterosalpingography (F. K. Fischer and L. Meyer), 1952, **67,** 1017 (ab)
—— lipiodol, for demonstration of sinus tracts, fistulas and infected cavities (J. M. Dell, Jr.), 1949, **61,** *223
—— monophen for oral cholecystography (M. G. Wasch and B. S. Epstein), 1951, **66,** *98
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—— neo-iopax; relationship between degree of reactions and time of intravenous injection (J. L. Armbruster and H. W. Hefke), 1952, **68,** *915
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—— oil; new method of examination of gastric mucosa (C. Gianturco), 1949, **62,** *564
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—— peridurography in diagnosis of pathologic changes of vertebrae and intervertebral discs (K. Albrecht and W. Dressler), 1951, **65,** 318 (ab)
—— pharmabaryt; treatment of acute intussusception by enema of (G. Lindberg and O. Morales), 1950, **63,** 277 (ab)
—— radiopaque; effect of hyaluronidase on absorption of subcutaneously deposited radiopaque substance (N. Simon and L. Narins), 1949, **61,** *91
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—— study of esophagus and retrocardiac space in advanced age (O. Hülnhagen), 1952, **67,** 149 (ab)
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—— urokon, in excretory urography; clinical trial (L. L. Robbins, F. H. Colby, J. L. Sosman and W. R. Eyler), 1952, **68,** 153 (ab)
—— urokon, in pyelography; clinical evaluation (J. F. Richardson and D. K. Rose), 1951, **65,** 990 (ab)
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—— visualization of abdominal aorta and its branches following intravenous injection; 4 cases (T. F. Leigh and J. V. Rogers, Jr.), 1950, **64,** *945
—— water soluble (abrodil); use in lumbar myelography in disc prolapse (F. Knutsson), 1951, **66,** 991 (ab)
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—— water soluble, in bronchography; accident due to use (V. Parchet), 1952, **68,** 1007 (ab)
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—— Origin of lung cysts in childhood, 1952, **68,** 998 (ab)
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Cook, O. S., and **Roy, W. M.:** Body section roentgenography of facial bones and cervical spine (scientific exhibit), 1948, **60,** 557
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—— Use of angiocardiography and thoracic aortography in diagnosis of congenital cardiovascular malformations (refresher course), 1952, **68,** 128 (ab)
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—— Evaluation of radioactive isotopes as an adjunct to surgical diagnosis and therapy, 1952, **68,** 706 (ab)
—— and **Geschickter, C. F.:** Chondroblastic tumors of bone; benign and malignant, 1950, **63,** 604 (ab)
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—— agenesis in infancy; clinical and roentgenologic aspects (E. Savitsky and V. A. Spinelli), 1949, **62,** 903 (ab)
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—— Closing discussion of paper by L. Reynolds, K. E. Corrigan and H. S. Hayden, 1952, **68,** 434
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—— **Gusberg, S. B.,** and **Donlan, C. P.:** Precision dosage in interstitial irradiation of cancer of cervix uteri, 1948, **60,** *522
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—— treatment of cancer, leukemia and lymphosarcoma (T. D. Spies), 1951, **66,** 165 (ab)
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—— treatment of Hand-Schüller-Christian syndrome (W. H. Blahd, M. S. Levy and S. H. Bassett), 1952, **68,** 540 (ab)
—— treatment of leukemia and lymphoblastoma (J. M. Stickney, F. J. Heck and C. H. Watkins), 1951, **66,** 165 (ab)
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—— treatment of leukemia in childhood (I. Schulman, J. T. Lanman, O. E. Laxdal and L. E. Holt, Jr.), 1952, **68,** 168 (ab)
—— treatment of leukemias and lymphomas of children (C. E. Snelling, W. L. Donohue, B. Laski and S. H. Jackson), 1952, **68,** 168 (ab)
—— treatment of lymphatic and myelogenous leukemia (C. Weder and A. Becker), 1951, **66,** 1022 (ab)
—— treatment of lymphatic and myelogenous leukemia (R. E. Bell and R. K. Thomson), 1951, **66,** 1023 (ab)
—— treatment of lymphomas and leukemias (O. H. Pearson and L. P. Eliel), 1951, **66,** 698 (ab)
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—— treatment of sarcoidosis (M. J. Small), 1952, **68,** 862 (ab)
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—— vs. nitrogen mustard treatment of rheumatoid arthritis (N. M. Shutkin), 1951, **66,** 1024 (ab)
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Cosgriff, S. W., and **Kligerman, M. M.:** Use of ACTH and cortisone in treatment of post-irradiation pulmonary reaction, 1952, **68,** 541 (ab)
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Coss, J. A., Jr., and **Boots, R. H.:** Juvenile rheumatoid arthritis; study of 56 cases with note on skeletal changes, 1948, **59,** 456 (ab)
Costa, V.: Castration and androgen hormonal therapy in primary cancer of female breast and in its metastases, 1952, **67,** 340 (ab)
Costello, C. J.: Breast cancer and "Paget's disease of the breast," 1948, **59,** 151 (ab)
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Costero, I.: Some aspects of the evolution of silicotic lesions, 1948, **60,** 706 (ab)
Costero, J.: Some problems related to origin and meaning of pituitary gland tumors, 1949, **62,** 903 (ab)
Costin, M. E., and **Gaston, E. A.:** Solitary diverticulum of cecum, 1951, **65,** 651 (ab)
Costolow, W. E.: Care of patients with advanced pelvic cancer, 1948, **60,** 859 (ab)
—— Management of Stage I carcinoma of cervix uteri, 1949, **62,** 610 (ab)
—— Carcinoma of cervical stump, 1950, **63,** 294 (ab)
—— Radiation therapy in diseases of genito-urinary tract, 1952, **67,** 695 (ab)
—— and **Nolan, J. F.:** Factors influencing prognosis in treatment of carcinoma of the cervix uteri, 1952, **67,** 332 (ab)
—— See **Nolan, J. F.,** jt. auth.
—— See **Stein, J. J.,** jt. auth.
—— **Nolan, J. F., Budenz, G. C.,** and **Dusault, L.:** Radiation treatment of carcinoma of the corpus uteri (scientific exhibit), 1952, **68,** 826
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Cotton, R.: See **Berlin, L.,** jt. auth.
Cotton dust affections of respiratory tract in exposed individuals, 1948, **59,** 738 (E)
Cottrell, G. W.: Renal osteitis fibrosa superimposed on senile osteoporosis; report of case without parathyroid hyperplasia and with ureteritis cystica, 1948, **59,** 596 (ab)
Coughlin, E. J., Jr., Guare, H. T., and **Moskovitz, A. J.:** Chrondrodystrophia calcificans congenita; case report with autopsy findings, 1951, **66,** 997 (ab)
—— See **Ray, R. B.,** jt. auth.
Coulter, M. P.: See **Rekers, P. E.,** jt. auth.
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Counseller, V. S.: See **Baskin, R. H., Jr.,** jt. auth.
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—— impulse, for checking x-ray timers (B. R. Stephenson and E. G. Eschner), 1952, **68,** 342 (ab)
—— scintillation, clinical application (scientific exhibit) (M. TerPogossian, W. B. Ittner and W. B. Seaman), 1951, **66,** 823
—— scintillation, in clinical studies of human thyroid physiology using I^{131} (H. C. Allen, Jr., R. L. Libby and B. Cassen), 1952, **67,** 698 (ab)
Cournand, A.: Newer methods in diagnosis of congenital cardiac anomalies, 1952, **67,** 519 (ab)
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Courter, S. R.: See **Felson, B.,** jt. auth.
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Cove, A. M., and **Curphey, W. C.:** Prolapse of redundant gastric mucosa, 1949, **62,** 757 (ab)
Coventry, M. B.: Differential diagnosis of malignant bone tumors, 1951, **66,** 510 (ab)
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—— Photographic effect of various radiations on special dental packets, 1950, **63,** 465 (ab)
—— Survey of scattered radiation from fluoroscopic units in 15 institutions, 1950, **64,** 188 (ab)
—— **DeAmicis, E.,** and **Spalding, C. K.:** Comparison of three survey instruments exposed to various radiations, 1951, **66,** *961
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Cox, W. F.: See **Nemet, A.,** jt. auth.
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—— Valga: See Hip, deformities
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—— Osseous tuberculosis with negative tuberculin test; report of case, 1952, **68,** 158 (ab)
Cozza, F.: Reparative osteogenesis of fracture in animals with hypoparathyroidism treated with vitamin D_2, 1950, **64,** 557 (ab)
Crabtree, E. G.: Venous invasion due to urethrograms made with lipiodol, 1948, **59,** 594 (ab)
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Crafoord, C.: See **Birath, G.,** jt. auth.
Craig, A.: See **Gass, H.,** jt. auth.
Craig, B. R.: See **Weber, B.,** jt. auth.
Craig, M. S., Jr., and **Buie, L. A.:** Factitial (irradiation) proctitis; clinicopathologic study of 200 cases, 1950, **64,** 181 (ab)
Craig, W. M., and **Horrax, G.:** Occurrence of hemangioblastomas (two cerebellar and one spinal) in three members of a family, 1950, **64,** 341 (ab)
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Cramer, O. S.: See **Grossman, J. W.,** jt. auth.
Crane, P., Lerner, H. H., and **Lawrence, E. A.:** Syndrome of arteriovenous fistula of lung, 1949, **62,** *418
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—— diagnosed prenatally; review of literature with case report (G. D'Aversa and D. H. Lonngren), 1951, **65,** *590
—— lacuna skull and craniofenestria (C. van Waalwijk van Doorn and J. N. Boet), 1950, **63,** 433 (ab)
Craniometry, fetal cephalometry; Cave's roentgenographic method (T. W. McElin and others), 1952, **67,** 528 (ab)
Craniopharyngioma, diagnosis (L. Haas), 1951, **65,** 131 (bk. rev.)
—— in children (F. D. Ingraham and H. W. Scott), 1948, **59,** 755 (ab)
—— in woman aged 57; visual and auditory hallucinations; genesis of hallucinations occurring in patients afflicted with cerebral lesions (M. W. Riese), 1950, **64,** 673 (ab)
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—— abnormalities: craniolacunia (J. P. Wyatt and H. Goldenberg), 1949, **62,** 280 (ab)
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—— anatomical variations of the skull (L. Psenner), 1952, **68,** 139 (ab)
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—— angiography (instruction course) (F. J. Hodges), 1948, **60,** 129; 1949, **62,** 143
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—— bones, primary tumors (H. J. Vandenberg, Jr. and B. L. Coley), 1951, **65,** 822 (ab)

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—— chordoma of base of skull and lymphangitic pulmonary metastases with hypertrophic osteoarthropathy (N. Uhr and J. Churg), 1950, **63,** 933 (ab)
—— convolutional markings in skull roentgenograms of patients with headache (L. M. Davidoff and H. Gass), 1949, **61,** *317
—— cranial sutures, premature closure (D. R. Simmons and W. T. Peyton), 1948, **60,** 436 (ab)
—— craniopharyngiomas (pituitary adamantinomas) (J. G. Love and T. M. Marshall), 1951, **65,** 823 (ab)
—— craniosynostosis; surgical treatment (scientific exhibit), (F. D. Ingraham, D. D. Matson and R. L. McLaurin), 1952, **68,** 824
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—— deliberate thrombosis of intracranial arterial aneurysm by partial occlusion of carotid artery with arteriographic control; case (A. Ecker and P. Riemenschneider), 1952, **67,** 504 (ab)
—— digital markings in radiographs of skull in children (D. Macaulay), 1952, **68,** 988 (ab)
—— diploic epidermoid and extradural pneumatocele; cranial defects and deformity (J. E. J. King), 1949, **62,** 151 (ab)
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—— dysostosis of skull, face and extremities (acrocephalosyndactyly) (R. W. Buckley and P. I. Yakovlev), 1949, **62,** 901 (ab)
—— early brain damage and dysplasia of base of skull (K. H. Schiffer), 1952, **67,** 842 (ab)
—— embryological tumor of retinal anlage involving the skull (B. E. Clarke and H. Parsons), 1952, **67,** 502 (ab)
—— eosinophilic granuloma; pulmonary roentgen manifestations (R. Gilbert and G. Voluter), 1948, **60,** 569 (ab)
—— epidermoid tumor; jugular foramen syndrome (Jackson's); successful surgical treatment (J. G. Love), 1952, **67,** 842 (ab)
—— expanding, contracting and atrophic lesions; pneumographic diagnosis (Instruction course) A. E. Childe), 1949, **62,** 143
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—— fibrous dysplasia of skull (W. Feiring, E. H. Feiring and L. M. Davidoff), 1952, **67,** 842 (ab)
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—— hemorrhage associated with perforation of gastric ulcer in a newborn infant (C. Gottlieb, F. Chu and H. S. Sharlin), 1951, **65,** 511 (ab)
—— hereditary factors in sutural pattern of skull (J. Torgersen), 1952, **68,** 673 (ab)
—— hyperostoses; short review (A. Schüller), 1952, **67,** 132 (ab)
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—— lesions, neoplastic and non-neoplastic; radiation therapy (instruction course) (H. D. Kerr), 1950, **64,** 134
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—— lesions; relation of acute mucosal hemorrhages and ulcers of gastrointestinal tract to (G. S. Strassmann), 1948, **60,** 570 (ab)
—— lesion; roentgen findings (J. G. Teplick and P. Dorsey), 1949, **61,** *762
—— linea innominata of skull; anatomical basis and significance in diagnosis of tumors of orbit (G. Liess), 1952, **68,** 489 (ab)
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—— measurements; roentgenological and diagnostic applications (L. L. Haas), 1952, **67,** *197
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—— mechanism of skull fractures; types and mechanism of production (scientific exhibit) (E. S. Gurdjian, J. E. Webster and H. R. Lissner), 1951, **66,** 819
—— metastases from breast cancer (J. R. Freid, H. Goldberg and J. B. Herrmann), 1950, **63,** *322
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—— metastases of sarcoma botryoides (L. M. Friedland), 1952, **68,** 517 (ab)
—— midline calcified aneurysm between occipital lobes; case (D. Oscherwitz and L. M. Davidoff), 1949, **61,** 263 (ab)

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—— osteoporosis circumscripta of skull: "second disease of Schüller" (B. Perotti), 1951, **66,** 122 (ab)
—— primary hemangioma; rare cranial tumor; review of literature and case with special reference to roentgenographic appearance (B. D. Wyke), 1949, **61,** *302
—— radiological changes in dystrophia myotonica (J. E. Caughey), 1952, **68,** 990 (ab)
—— roentgen demonstration of first cervical vertebra; additional technic (B. Walters), 1950, **63,** *739
—— roentgen anatomical study of skull; new method (scientific exhibit) (L. E. Etter), 1948, **60,** 551
—— roentgen anatomy of skull in newborn infant (S. G. Henderson and L. S. Sherman), 1948, **59,** 144 (ab)
—— roentgenograms; collection (L. Haas), 1951, **65,** 131 (bk. rev.)
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—— roentgenologic study of metopic suture (J. Torgersen), 1950, **64,** 672 (ab)
—— roentgenology of linea innominata (H. Cregg), 1951, **66,** 286 (ab)
—— Sanchez-Perez automatic cranial seriography (scientific exhibit) (J. M. Sanchez-Perez), 1948, **60,** 550
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—— sinus pericranii; case (M. H. Poppel, J. F. Roach and H. Hamlin), 1948, **59,** *505
—— skull, sinuses and mastoids: handbook of roentgen diagnosis (B. R. Young), 1949, **62,** 745 (bk. rev.)
—— spasm of intracranial arteries; arteriographic demonstration (A. Ecker and P. A. Riemenschneider), 1952, **68,** 699 (ab)
—— spontaneous pneumocephalus; case occurring in course of carcinoma of nasopharynx (L. Raider), 1951, **66,** *231
—— suture, premature closing; clinical studies in craniosyostosis (F. D. Ingraham, E. Alexander and D. D. Matson), 1950, **63,** 435 (ab)
—— trauma; evaluation by angiography (scientific exhibit) (J. E. Lofstrom, J. E. Webster and E. S. Gurdjian), 1952, **68,** 823
—— traumatic hemorrhage; diagnosis by angiography (J. E. Webster, R. Dawson and E. S. Gurdjian), 1952, **67,** 843 (ab)
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—— vertebral and cranial venous systems; diodrast studies to show their probable role in cerebral metastases (R. Anderson), 1952, **67,** 843 (ab)
Craver, B. N.: Effect of adrenal cortical injury on toxicity of roentgen rays, 1948, **59,** *404
Craver, L. F.: Lymphomas and leukemias, 1949, **61,** 581 (ab)
—— Nitrogen mustards; clinical use, 1949, **62,** 464 (ab)
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Cravotta, C. A.: See **Cohen, M.,** jt. auth.
Crawford, G. M., Luikart, R. H., Jr., and **Tilley, R. F.:** Roentgen therapy in acne, 1952, **68,** 705 (ab)
Crawford, H. B.: See **Merrill, E. F.,** jt. auth.
Crawford, J. N. B.: Medical aspects of the effects of atomic explosion, 1951, **65,** 680 (ab)
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Cregan, J. C. F.: Prolonged traumatic arterial spasm after supracondylar fracture of humerous; report of case, 1952, **68,** 155 (ab)
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Cretinism, differentiation between mongoloid and cretinoid child at birth; use of radioactive iodine studies in congenital thyroid aplasia (J. E. Kearns and W. F. Hutson), 1952, **68,** 338 (ab)
—— early detection, and other diagnostic uses of radioactive tracers in infancy and childhood (L. Reynolds, K. E. Corrigan and H. S. Hayden), 1950, **64,** 894 (ab)
—— experimental; production in dogs by administration of radioactive iodine (C. A. Smith and others), 1952, **68,** 857 (ab)
Crews, H. R., Hampton, A. O., and **Moore, J. P.:** Value of upright ronentgenograms of maternal pelvis at or near term with particular reference to placenta praevia, 1949, **62,** *707
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Crile, G., Jr.: Treatment of tumors of thyroid with divided doses of radioactive iodine, 1951, **65,** *415
—— and **McCullagh, E. P.:** Treatment of hyperthyroidism; evaluation of thyroidectomy, of prolonged administration of propyl thiouracil, and of radioactive iodine, 1952, **67,** 704 (ab)
—— and **Rumsey, E. W.:** Subacute thyroiditis, 1950, **63,** 934 (ab)
Crimm, P. D.: Spontaneous collapse, 1949, **62,** 590 (ab)
—— Evaluation of a five year minifilm program, 1952, **68,** *240
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Crismer, R.: Crohn's disease localized in the jejunum accompanied by chronic pancreatitis and achrestic anemia, 1952, **67,** 152 (ab)

Cristol, D. S., Bothe, A. E., and **Grotzinger, P. W.:** Radioactivity and urinary tract calculi, 1949, **62,** 772 (ab)
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Crohn, B. B., Garlock, J. H., and **Yarnis, H.:** Right-sided (regional) colitis, 1948, **60,** 146 (ab)
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Cromar, C. D. L.: Benign ulcer of caecum, 1948, **59,** 309 (ab)
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Cromer, J. K.: Partial pelvic evisceration in treatment of carcinoma of cervix invading urinary bladder; report based on result obtained in 12 cases, 1952, **68,** 518 (ab)
Cronin, T. D., and **Brauer, R. O.:** Radiodermatitis and necrosis, 1950, **64,** 183 (ab)
Cronkite, E. P.: Ionizing radiation injury; its diagnosis by physical examination and clinical laboratory procedures, 1950, **63,** 145 (ab)
—— Diagnosis, prognosis, and treatment of radiation injuries produced by atomic bombs, 1952, **67,** 697 (ab)
—— Closing discussion of paper by E. P. Cronkite, G. J. Jacobs, G. Brecher and G. Dillard, 1952, **67,** 804
—— See **Chapman, W. H.,** jt. auth.
—— **Jacobs, G. J., Brecher, G.,** and **Dillard, G.:** Hemorrhagic phase of acute radiation syndrome due to exposure of whole body to penetrating ionizing radiation, 1952, **67,** *796
Crooke, A. L.: See **Baker, S. L.,** jt. auth.
Crosbie, J., and **others:** Irradiation hemorrhage: heparinemia (?) (scientific exhibit), 1948, **60,** 552
Cross, F. S.: New method for obtaining barium enemas in colostomy patients, 1952, **68,** 317 (ab)
Cross, G. O.: Subarachnoid cervical angioma with cutaneous hemangioma of a corresponding metamere, 1948, **60,** 580 (ab)
Cross, J. E., Guralnick, E., and **Daland, E. M.:** Carcinoma of the lip—a review of 563 case records of carcinoma of lip at Pondville Hospital, 1949, **61,** 283 (ab)
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—— **McGrath, A. K., Jr., Benioff, M. A.,** and **Rosenthal, M.:** Evaluation of cytologic diagnosis of lung cancer, 1951, **66,** 488 (ab)
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—— roentgen; minimal requirements for mass radiography (F. C. S. Bradbury), 1949, **62,** 282 (ab)
—— roentgen; new processing room accessory; clip drip tray (S. H. Macht), 1949, **61,** *100
—— roentgen; portable projector (scientific exhibit) (R. A. Dillon and W. P. Murphy, Jr.), 1948, **60,** 557
—— roentgen; reading session (instruction course) (A. S. Macmillan), 1948, **60,** 130; 1949, **62,** 144; 1951, **66,** 272; 1952, **68,** 129
—— roentgen; reproduction of negative x-ray film (A. Best and L. Stroud), 1949, **61,** 881 (ab)
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—— roentgen; role of roentgenologist in proposed plan for small film screening of inhabitants of major cities (T. F. Hilbish), 1950, **63,** 439 (ab)
—— roentgen; sensitometry (R. H. Morgan and W. W. Van Allen), 1950, **63,** 627 (ab)
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—— roentgen; tuberculosis experience in Alabama State hospitals (A. H. Russakoff), 1949, **61,** 575 (ab)
—— roentgen; tuberculosis experience of U.S. Army in World War II (E. R. Long), 1949, **61,** 575 (ab)
—— roentgen; use in dosimetry (G. D. Adams), 1952, **67,** *991
—— roll; apparatus for rapid serial filming (W. H. Thompson, M. M. Figley and F. J. Hodges), 1952, **67,** 341 (ab)
—— roll; automatic roentgen-ray, magazine for angiocardiography and cerebral arteriography (C. T. Dotter, I. Steinberg and H. L. Temple), 1949, **62,** *355
—— roll; cerebral angiography with rapid serialized x-ray exposures on roll film 9½ inches wide (W. G. Scott and W. B. Seaman), 1951, **66,** 835 (ab)
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—— spot film radiography; physical problems (R. H. Morgan), 1950, **63,** 628 (ab)
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—— survey; follow-up study of lung cancer suspects (C. L. Scamman), 1952, **67,** 506 (ab)
—— survey; mass roentgenological, of gastrointestinal tract to detect cancer of stomach (S. Moore), 1949, **61,** *470
—— survey; photoroentgenographic results: comparison of 4 × 5 inch and 70 mm. equipment in 1,713 cases (F. Tice), 1948, **60,** 702 (ab)
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—— survey; new roll film serial apparatus for roentgenograms 30 × 30 cm. in size (R. Janker), 1952, **67,** 711 (ab)
—— survey; roentgenologic diagnosis of tuberculosis (R. H. Morgan), 1949, **62,** 152 (ab)
—— survey; 70 mm. photofluorographic; heart disease case findings by (D. D. Rutstein, C. R. Williamson and F. E. Moore), 1952, **68,** 677 (ab)
—— survey; some medical and roentgenological aspects of mass chest surveys (A. C. Christie), 1949, **61,** *147
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—— types (Ilfex, Process, Kodaline, Maximum resolution); use in microarteriography (A. E. Barclay), 1948, **60,** *2
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—— shaping of isodose surfaces by differential absorption in betatron therapy (H. Quastler and others), 1949, **61,** *603
—— to control radiation exposure to patient in diagnostic roentgenology (E. D. Trout, J. P. Kelley and G. A. Cathey), 1952, **67,** *946
—— wedge; use in x-ray therapy (F. Ellis, W. Shanks, L. A. W. Kemp and R. Oliver), 1951, **65,** 322 (ab)
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Findlay, C. W., Lehman, W. L., and **Rottenberg, L. A.:** Gumma of lung, 1950, **63,** 449 (ab)
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Fine, J.: See Friedman, E. W., jt. auth.
de Fine Licht, E.: Technical exhibition, Seventh International Congress of Radiology, 1953, 1952, **67,** 657; 1952, **68,** 828
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—— clubbing in severe hypertrophic pulmonary osteoarthropathy (J. R. Fischl), 1950, **64,** *42
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—— disease; Heberden's nodes (R. M. Stecher and H. Hauser), 1948, **59,** *326
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—— multiple destructive processes of phalanges of hand with simultaneous calcifications of soft tissues of indefinite etiology (F. Bohatirchuk), 1950, **64,** *649
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—— phalangeal metastases in bronchiogenic carcinoma; 3 cases (G. M. Colson and A. Willcox), 1948, **60,** 855 (ab)
—— sclerodactyly, esophageal lesions in (W. A. Bourne), 1950, **63,** 445 (ab)
—— secondary carcinoma of the phalanges (F. W. Brason, E. G. Eschner, S. Sanes and G. Milkey), 1952, **68,** 844 (ab)
—— symphalangism and related fusions of tarsal bones (F. H. Austin), 1952, **67,** 888 (ab)
—— thyroid acropachy (R. Greene), 1952, **67,** 141 (ab)
—— triphalangeal thumb (H. Milch), 1952, **67,** 883 (ab)
—— tuberculous dactylitis in childhood; prognosis (J. B. Hardy and J. K. Hartman), 1948, **59,** 760 (ab)
—— tuberculous dactylitis in the adult (A. L. Umansky, P. T. Schlesinger and B. B. Greenberg), 1949, **61,** 140 (ab)
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—— See **Javert, C. T.,** jt. auth.
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Firor, W. B.: See **Waters, C. A.,** jt. auth.
Fisch, C.: Heart in dystrophia myotonica, 1952, **67,** 520 (ab)
Fischer, F. K.: Contribution to knowledge of bronchographic changes in chronic bronchitis, 1951, **65,** 148 (ab)
—— Technique, indications and results of bronchography using a water soluble, viscous contrast medium (Joduron "B"), 1951, **65,** 829 (ab)
—— Phlebography of the shoulder, neck and mediastinal regions, 1952, **68,** 993 (ab)
—— and **Meyer, L.:** Ioduron-S, a new water-soluble viscid contrast medium for hysterosalpingography, 1952, **67,** 1017 (ab)
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—— **Prot, D.,** and **Fissore, A.:** Unilateral changes in the anterior clinoid due to neoplasms in the sphenoorbital space, 1952, **67,** 134 (ab)
Fischl, J. R.: Severe hypertrophic pulmonary osteoarthropathy; report of case due to carcinoma of lung with operation and recovery, 1950, **64,** *42
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Fischmann, E. J., and **Gwynne, F. J.:** Heart in rheumatoid arthritis, 1949, **61,** 733 (ab)
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—— and **Wilson, D.:** Toxoplasmosis; report of case with roentgen demonstration of unusual intracranial calcifications, 1948, **59,** *816
Fishkin, B. G.: See **Goldman, R.,** jt. auth.
Fishler, M. C.: See **Kimeldorf, D. J.,** jt. auth.
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Fissel, G. E.: See **Bird, G. C., Jr.,** jt. auth.
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bly, E. Caceres and J. A. Corscaden), 1952, **68,** *779
—— aortoesophagogastric; unusual complication of esophagogastrostomy performed under aortic arch after esophageal resection for cancer; 2 cases (K. A. Merendino and E. C. Emerson), 1951, **65,** 144 (ab)
—— arteriovenous (D. C. Elkin and J. V. Warren), 1948, **59,** 766 (ab)
—— arteriovenous, cervical; complications and effects in 33 patients (J. M. Hammer and others), 1952, **68,** 160 (ab)
—— arteriovenous, congenital, in the mandible (R. C. Clay and A. Blalock), 1951, **65,** 824 (ab)
—— arteriovenous, extracardiac, in thorax (E. J. Marchand, M. R. Hejtmancik and G. R. Herrmann), 1952, **68,** 676 (ab)
—— arteriovenous, of great cerebral vein (of Galen) and circle of Willis (E. Boldrey and E. R. Miller), 1950, **64,** 517 (ab)
—— arteriovenous, of lung (H. C. Maier, A. Himmelstein, R. L. Riley and J. J. Bunin), 1948, **60,** 709 (ab)
—— arteriovenous, of lung (H. A. Salvesen and F. Marstrander), 1952, **67,** 509 (ab)
—— arteriovenous, of lung (J. Carswell, Jr.), 1951, **65,** 643 (ab)
—— arteriovenous, of lung, syndrome; review of literature; 27 cases (P. Crane, H. H. Lerner and E. A. Lawrence), 1949, **62,** *418
—— arteriovenous, of lungs (S. Baer, A. Behrend and H. L. Goldburgh), 1951, **65,** 507 (ab)
—— arteriovenous, pulmonary; angiographic demonstration (C. E. Duisenberg and L. Arismendi), 1950, **63,** 938 (ab)
—— arteriovenous, pulmonary; roentgen aspects, 1952, **67,** 478 (E)
—— biliary, interval; clinical and roentgen aspects; 12 cases (C. N. Waggoner and D. V. LeMone), 1950, **63,** 774 (ab)
—— biliary-bronchial, traumatic (C. C. Guy and H. T. Oleck), 1949, **61,** 123 (ab)
—— dilidigestive, spontaneous (M. A. De Andrade and L. P. De Brito Pereira), 1951, **66,** 128 (ab)
—— bronchoesophageal, and broncholithiasis (H. M. Kidd and E. Christopherson), 1952, **67,** 142 (ab)
—— bronchoesophageal, congenital, persistent to adult life (D. R. Morton, J. F. Osborne and K. P. Klassen), 1951, **65,** 828 (ab)
—— bronchopleurocutaneous, of tuberculous origin, successfully treated with streptomycin (R. F. Vaccarezza and A. Raimondi), 1950, **63,** 451 (ab)
—— cholecystocolic (R. H. Marshak and W. Henkin) 1950, **64,** 165 (ab)
—— cholecystocolic, diagnosed by roentgen examination; case report and review (D. L. Jenkinson and H. M. Lowry), 1948, **60,** *658
—— chronic draining, carcinoma developing in (A. K. McAnally and M. B. Dockerty), 1949, **62,** 772 (ab)
—— cutaneo- osteovesical; case after fracture of pelvis, rupture of bladder and hip fusion (J. J. Kaufman), 1952, **68,** 524 (ab)
—— demonstration by lipiodol (J. M. Dell, Jr., 1949, **61,** *223
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—— duodenocolic; 5 cases (E. J. Halligan, L. L. Perkel and J. K. Catlaw), 1951, **65,** 158 (ab)
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—— during radiation treatment of cervical cancer (J. F. Hynes), 1948, **60,** *377

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—— esophagobronchial, through esophageal diverticulum; case with treatment by cauterization (D. L. Jenkinson and L. C. Bate), 1951, **66,** *236
—— esophagopleural, after perforation of esophagus by foreign body (W. E. Hughes), 1950, **63,** 130 (ab)
—— formation after use of low intensity, long radium element needles in treatment of cancer of cervix uteri (G. W. Waterman and E. M. Tracy), 1948, **60,** *790
—— gastrobronchial; case (K. Liavaag), 1950, **63,** 450 (ab)
—— gastrocolic, complicating cancer of colon; case (P. Zanca), 1949, **61,** 278 (ab)
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—— gastrojejunocolic; postoperative complications in 19 cases (A. W. Skoog-Smith, G. Jaspin and J. W. Sullivan), 1951, **66,** 497 (ab)
—— gastropericardial, after transthoracic esophagectomy (C. J. Schein, G. L. Judson and A. C. Hemphill), 1950, **64,** 537 (ab)
—— internal biliary, due to peptic ulcer (J. M. Sullivan and L. Hamman), 1952, **68,** 685 (ab)
—— oral, after treatment of cancer of tongue (H. B. Elkins), 1952, **68,** *86
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—— pulmonary, symptomless (D. J. Roberts and J. E. Hutchison), 1951, **66,** *743
—— recto-urethral (R. K. Magee), 1949, **61,** 432 (ab)
—— recto-urethral, and imperforate anus in 27 year old man; case (J. J. Duffy), 1952, **67,** 167 (ab)
—— recto-urethral, congenital (L. Cifuentes Delatte and I. Albala), 1952, **68,** 837 (ab)
—— recto-urinary, congenital (R. L. Stewart and J. A. Ross), 1952, **67,** 1019 (ab)
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—— sigmoidovesical, from diverticulitis of sigmoid colon (L. H. Mayfield and J. M. Waugh), 1950, **64,** 337 (ab)
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—— tracheoesophageal, congenital, without esophageal atresia (C. Haight), 1949, **62,** 584 (ab)
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—— **Foote, F. W., Jr.,** and **Hill, R. F.:** Concentration of I^{131} in thyroid cancer shown by radioautography, 1950, **64,** 363 (ab)
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—— effect of flavonoids (vitamin P) on mortality from total body roentgen irradiation (W. G. Clark, R. P. Uncapher and M. L. Jordan), 1950, **63,** 147 (ab)
Flecker, H.: Union of metatarsal epiphyses, 1952, **68,** *37
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—— Occurrence and diagnosis of dilatation of aorta distal to the area of coarctation, 1949, **61,** *199
—— Bronchial peristalsis, 1949, **62,** *65
—— Visible bronchial tree; roentgen sign in pneumonic and other pulmonary consolidations, 1949, **62,** 282 (ab)
—— Pathogenesis of bronchiectasis; roentgen contribution, 1950, **64,** 528 (ab)
—— Discussion of papers by J. Caffey and W. R. Christensen, C. Liebman and M. C. Sosman, 1951, **65,** 40
—— Esophagus and mediastinal lymphadenopathy in bronchial carcinoma, 1952, **68,** 1008 (ab)
—— and **Bernstein, C.:** Roentgen-anatomical studies of normal ileocecal valve, 1950, **64,** 695 (ab)
—— and **Shalek, S. R.:** Conjunctival and corneal calcification in hyercalcemia, 1950, **63,** 435 (ab)
—— and **Udis, S. W.:** Dilatation of the azygos vein; roentgen sign of venous engorgement, 1952, **67,** *569
—— **Bernstein, C.,** and **Levine, B. E.:** Retrosternal infiltration in malignant lymphoma, 1949, **62,** 905 (ab)
—— **Robins, S. A.,** and **Abrams, M.:** High renal ectopia and congenital diaphragmatic hernia, 1951, **65,** 980 (ab)
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Fleming, J.: An epidemic of acute nephritis, 1950, **63,** 780 (ab)
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Fletcher, D. E., and **Rowley, K. A.:** Radiographic enlargements in diagnostic radiology, 1952, **68,** 865 (ab)
Fletcher, G. H.: Improved method of visualization of sigmoid, 1948, **50,** *750
—— Backward displacement of fifth lumbar vertebra in degenerative disc disease, 1948, **60,** 285 (ab)
—— Planning of external irradiation in pelvic cancer, 1950, **64,** *95; correction, 1950, **64,** 1021
—— Cancer of cervix uteri; roentgen treatment of cancer of cervix, 1951, **65,** 670 (ab)
—— and **Lombard, M. S.:** Case of bronchial adenoma without signs of bronchial obstruction, concomitant with minimal pulmonary tuberculosis, 1949, **61,** *209
—— and **Matzinger, K. E.:** Value of soft-tissue in diagnosis and treatment of head and neck tumors, 1952, **68,** 345 (ab)
—— **Shalek, R. J.,** and **Cole, A.:** Dosimetry in radium therapy of carcinoma of cervix (scientific exhibit), 1952, **68,** 826
—— **Shalek, R. J., Wall, J. A.,** and **Bloedorn, F. G.:** Physical approach to the design of applicators in radium therapy of cancer of cervix uteri, 1952, **68,** *935
Flick, J. J.: Ocular lesions following atomic bombing of Hiroshima and Nagasaki, 1948, **60,** 698 (ab)
Flickinger, F. M.: Monostotic fibrous dysplasia of bone; report of case involving 3 contiguous ribs treated by wide resection of the thoracic cage, 1952, **67,** 172 (ab)
Flink, E. B.: Calcium, phosphorus and phosphatase as aids in diagnosis of bone lesions, 1948, **60,** 720 (ab)
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Flinn, I. M.: Osteoperiosteal ribbon grafts in undisplaced ununited fractures of the tibia, 1952, **67,** 887 (ab)
Flocculation count in irradiation of man with roentgen rays; lawful behavior (M. Takata), 1951, **66,** 1027 (ab)
Flocks, R. H.: Treatment of patients with carcinoma of the bladder, 1951, **66,** 1019 (ab)
—— **Elkins, H. B., Kerr, H. D.,** and **Culp, D. A.:** Carcinoma of the prostate (scientific exhibit), 1952, **68,** 822
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Florence, T. J., Howland, W. S., and **Weens, H. S.:** Intravenous urography in acute renal colic, 1948, **59,** 309 (ab)
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—— in localization of brain tumors (H. J. Svien and and A. B. Johnson, II), 1952, **67,** 500 (ab)

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—— studies on blood supply of tumors in man; fluorescence of cutaneous lesions (H. R. Bierman, K. H. Kelly, K. S. Dod and R. L. Byron, Jr.), 1952, **67,** 706 (ab)
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—— roentgenographic changes and urinary fluoride excretion among workmen engaged in manufacture of inorganic fluorides (E. J. Largent, P. G. Bovard and F. F. Heyroth), 1951, **65,** *42
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—— cuneiform bone, fractures (F. M. McKeever), 1951, **66,** 140 (ab)
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—— and **Yearwood, H. M.:** Wilms' tumor; review of 5 year survivals in literature and report of two cases, 1950, **64,** 358 (ab)
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—— and colon, concurrent examination; compatability of castor oil and priodax (G. W. Sengpiel), 1950, **63,** 773 (ab)
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—— and **others:** Primary intrathoracic neurogenic tumors, 1951, **66,** 288 (ab)
—— Pathological effects and radioautographic localization of I^{131} in humans; postmortem study in 9 patients, 1952, **68,** 338 (ab)
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—— disease case findings by means of 70 mm. photofluorographic films (D. D. Hutstein, C. R. Williamson and F. E. Moore), 1952, **68,** 677 (ab)
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—— skeletal changes in myelomatosis, lymphosarcoma and osteomyelosclerosis (U. Cocchi), 1952, **68,** *570
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—— from Meckel's diverticulum as cause of melena in infancy; case (J. W. Grossman, C. F. Fishback and W. R. Lovelace, II), 1951, **66,** 303 (ab)
—— gastrointestinal; hiatus hernia of stomach as source (E. A. Mendelsohn), 1948, **59,** 450 (ab)
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—— hemorrhagic phase of acute radiation syndrome due to exposure of whole body to penetrating ionizing radiation (E. P. Cronkite, G. J. Jacobs, G. Brecher and G. Dillard), 1952, **67,** *796
—— hemorrhagic pleuritis, chronic; pleural endotheliona after (H. Hartweg), 1952, **67,** 146 (ab)
—— hemorrhagic shock, experimental, portal circulation; in vivo roentgen ray studies (E. W. Friedman, H. A. Frank and J. Fine), 1952, **67,** 713 (ab)
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—— intracranial, associated with perforation of gastric ulcer in a newborn infant (C. Gottlieb, F. Chu and H. S. Sharlin), 1951, **65,** 511 (ab)
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—— rectal, after irradiation for cancer of cervix (J. R. Johnston and H. W. Jacox), 1948, **60,** 861 (ab)
—— spontaneous subarachnoid in intradural tumors of lumbar sac; clinical syndrome (E. F. Fincher), 1952, **68,** 989 (ab)
—— subarachnoid, cerebral arteriography in (S. Wechsler and S. W. Gross), 1949, **61,** 426 (ab)
—— subarachnoid; follow-up examination of 138 cases (E. Ask-Upmark and D. Ingvar), 1951, **65,** 495 (ab)
—— subarachnoid, spontaneous, occurring in non-eclamptic pregnancy (J. W. Conley and C. W. Rand), 1952, **68,** 516 (ab)
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—— pulmonary; clinical, radiological and pathological aspects (L. D. W. Scott, S. D. S. Park and A. C. Lendrum), 1948, **59,** 444 (ab)
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Hendricks, C. H.: Supracervical hysterectomy and carcinoma of the cervix, 1952, **67,** 877 (ab)
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—— Cancer of cervix uteri; surgical treatment of cancer of cervix, 1951, **65,** 669 (ab)
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—— and **Bagley, C. W.:** Observations on use of inositol in advanced malignancy of genito-urinary tract, 1948, **60,** 576 (ab)
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—— diaphysial aclasis (H. A. T. Fairbank), 1950, **63,** 137 (ab); 138 (ab)
—— diffuse familial polyposis of colon (C. W. Mayo, J. H. DeWeerd and R. J. Jackman), 1952, **67,** 872 (ab)
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—— familial tendency in platybasia; special diagnostic sign and end results of operation (W. B. Scoville and I. J. Sherman), 1952, **67,** 502 (ab)
—— gargoylism, osseous lesions in 3 siblings; clinical features and diagnosis (W. P. U. Jackson), 1952, **68,** 849 (ab)
—— genetic chart in marble bone disease with dominant polyphan heredity (U. Cocchi), 1951, **65,** 307 (ab)
—— genetic constitution and hormonal stimulus; basis for integral treatment of breast cancer (D. Brachetto-Brian), 1951, **65,** 330 (ab)
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—— hereditary ectodermal dysplasia of anhidrotic type (S. Dundon), 1952, **67,** 177 (ab)
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—— hereditary multiple diaphyseal sclerosis (S. Ribbing), 1950, **63,** 787 (ab)
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—— myositis ossificans progressiva in homozygotic twins (J. H. Vastine, II, M. F. Vastine and O. Arango), 1948, **59,** *204
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—— diaphragmatic, of stomach with cancer (M. Dorfman), 1951, **66,** 301 (ab)
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—— diaphragmatic, with complete evisceration of liver (W. P. Kleitsch, A. D. Munger and W. F. Johnson), 1950, **64,** 329 (ab)
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—— esophageal hiatal (L. H. Clerf, T. A. Shallow, F. J. Putney and K. E. Fry), 1951, **65,** 501 (ab)
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—— esophageal hiatal, gastric protrusions through (M. Bromhart, J. Goutkine and Y. Laurent), 1950, **64,** 1030 (ab)
—— esophageal hiatal, of short esophagus types; etiologic and therapeutic considerations (A. M. Olson and S. W. Harrington), 1948, **60,** 713 (ab)
—— esophageal hiatal, with inversion of stomach (J. H. Marks), 1948, **59,** *63
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—— hiatus and short esophagus with thoracic stomach; complications and surgical treatment (D. B. Effler and E. N. Collins), 1952, **68,** 493 (ab)
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—— hiatus, demonstration; role in gastroenterology (H. L. Bockus), 1951, **65,** *862
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—— hiatus; treatment in older persons (O. C. Pickhardt, H. A. Rafsky and H. Ghiselin), 1950, **63,** 768 (ab)
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—— strangulated in foramen of Winslow (J. Lavarde and R. Chevret), 1950, **63,** 767 (ab)
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—— **Adair, F. E.,** and **Woodard, H. Q.:** Effect of estrogenic hormone on advanced carcinoma of female breast, 1949, **61,** 286 (ab)
Herrmann, K. O.: Emptying of the human gallbladder in serial roentgenograms; roentgenological physical demonstration, 1952, **67,** 672 (ab)
—— Roentgen demonstration of active emptying function of the muscle of sphincter of Oddi, 1952, **68,** 1011 (ab)
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Hertig, A. T., and **Somers, S. C.:** Genesis of endometrial carcinoma; study of prior biopsies, 1950, **64,** 339 (ab)
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—— See **Kistner, R. W.,** jt. auth.
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—— **Sommers, S. C.,** and **Bengloff, H.:** Genesis of endometrial carcinoma; carcinoma in situ, 1950, **64,** 339 (ab)
Hertz, S., and **Roberts, A.:** Radioactive iodine in study of thyroid physiology; use of radioactive iodine therapy in hyperthyroidism, 1948, **59,** 153 (ab)
—— and **others:** Analysis of multiple counter technique for measurement of radioactive sources independent of geometry, 1951, **65,** 334 (ab)
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Hertzler, J. H., and **Maguire, C. E.:** Congenital dilatation of the common bile duct; report of 2 cases in children, 1952, **67,** 153 (ab)
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—— and **Street, D. M.**: Melorheostosis; relief of pain by sympathectomy, 1951, **65**, 310 (ab)
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—— intubation (M. O. Cantor), 1950, **64,** 507 (bk. rev.)
—— intubation; effect of variations in amount of mercury on speed (M. O. Cantor), 1951, **65,** 651 (ab)
—— intubation physics (M. O. Cantor), 1950, **64,** 694 (ab)
—— intubation with Harris tube; technic and results (S. Dominguez Quesada) 1950, **65,** 540 (ab)
—— irradiation damage after 1,000-kv. roentgen therapy; evaluation of tolerance dose (H. I. Amory and I. B. Brick), 1951, **66,** 1014 (ab)
—— Jackson's membrane; radiological features (F. Greenwood and E. Samuel), 1951, **66,** 304 (ab)
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—— jejunum; Crohn's enteritis in (A. L. Froehlich), 1952, **67,** 152 (ab)
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—— jejunum, diverticulosis; clinical entity (I. M. Orr and Y. J. W. Russell), 1952, **68,** 315 (ab)
—— jejunum; gastrojejunocolic fistula (H. H. Faxon and W. G. Schoch, Jr.), 1949, **62,** 758 (ab)
—— jejunum; gastrojejunocolic fistulas (A. W. Skoog-Smith, G. Jaspin and J. V. Sullivan), 1951, **66,** 497 (ab)
—— jejunum, incarceration into transverse mesocolon in intra-abdominal hernia (G. H. Alexander and H. H. Richardson), 1950, **64,** *940
—— jejunum, leiomyoma; neoplasm imitating symptoms of duodenal ulcer (J. W. Cherry and R. L. Hill), 1952, **67,** 669 (ab)
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—— large, cancer; 478 cases including 80 5-year survivors (J. W. Buser, J. B. Kersner and W. L. Palmer), 1950, **64,** 1046 (ab)
—— large, cancer; 580 lesions (H. C. Spear and S. C. Brainard), 1952, **68,** 837 (ab)
—— large; diverticulitis and cancer; differentiation a roentgenologic problem (R. G. Fraser and C. B. Peirce), 1951, **66,** 500 (ab)
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—— meconium ileus; therapy (R. B. Hiatt and P. E. Wilson), 1949, **62,** 451 (ab)
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—— mucous membrane, cellular dynamics; quantitative measurements of effects of nitrogen mustard and irradiation of cellular division and differentiation (B. Webber, B. R. Craig and N. B. Friedman), 1952, **68,** 860 (ab)
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—— obstruction, acute (R. Smith and E. Samuel), 1949, **62,** 746 (bk. rev.)
—— obstruction, acute; comparative studies of small intestinal and colic obstruction (M. L. Michel, Jr., L. Knapp and A. Davidson), 1951, **66,** 132 (ab)
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—— obstruction in newborn (D. M. Glover and F. M. Barry), 1950, **64,** 545 (ab)
—— obstruction in newborn and the infant; diagnosis and surgical management (O. S. Wyatt), 1952, **67,** 870 (ab)
—— obstruction; intestinal intubation with aid of flexible stylet with controllable tip; new method (G. A. Smith and E. L. Brackney), 1951, **65,** 983 (ab)
—— obstruction; radiological diagnosis by means of direct radiography (J. H. Middlemiss), 1950, **63,** 460 (ab)
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—— obstruction, true strangulating; radiological experiences (J. Frimann-Dahl), 1952, **67,** 158 (ab)
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—— small, primary malignant disease (D. S. Likely, J. R. Lisa, M. H. Stitch and H. D. Stein), 1949, **62,** 911 (ab)
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—— direct measurement of uptake in thyroid gland (A. S. Freedberg, D. L. Chamovitz, A. L. Ureles and M. A. Van Dilla), 1951, **66,** 331 (ab)
—— disposal in hospital (E. H. Quimby and C. B. Braestrup), 1950, **63,** *11
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—— divided doses in treatment of thyroid tumors (G. Crile, Jr.), 1951, **65,** *415
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—— evaluation as adjunct to surgical diagnosis and therapy (M. M. Copeland), 1952, **68,** 706 (ab)
—— exploration of 85 cases of cancer of thyroid using (R. Coliez, M. Tubiana, J. Dutreix and J. Guelfi), 1952, **68,** 857 (ab)
—— formation of monoiodotryrosine from radioiodine in thyroid of rat and man (K. Fink and R. M. Fink), 1949, **62,** 774 (ab)
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Kesmodel, K. F., Jr., Donald, D. C., Jr., and **Rollins, S. L., Jr.:** Cerebral arteriography; cerebral vessel catheterization (scientific exhibit), 1949, **62,** 736
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Kessel, A. W. L.: Arthrography of the shoulder-joint, 1951, **66,** 139 (ab)
—— Intrathoracic meningocele, spinal deformity, and multiple neurofibromatosis, 1952, **67,** 169 (ab)
Kessel, J. F.: See **Kritzer, M. D.,** jt. auth.
Kesterson, J. E.: See **McCleery, R. S.,** jt. auth.
Kestler, O. C.: Unclassified premature cessation of epiphyseal growth about the knee joint, 1948, **59,** 762 (ab)
—— Traumatic instability of the ankle joint, 1948, **60,** *498
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Key, J. A.: Survival and growth of an epiphysis after removal and replacement, 1949, **62,** 766 (ab)
—— Calcium deposits in vicinity of shoulder and of other joints, 1950, **63,** 789 (ab)
—— Intervertebral-disc lesions in children and adolescents, 1950, **64,** 860 (ab)
—— and **Conwell, H. E.:** Management of fractures, dislocations and sprains, 1952, **68,** 667 (ab)
—— See **Ford, L. T.,** jt. auth.
—— See **Odell, R. T.,** jt. auth.
—— See **Pedersen, H. E.,** jt. auth.
Keynes, G.: Thyroid surgery 50 years ago, with a contribution on intrathoracic goitre, 1951, **65,** 143 (ab)
Khanolkar, V. R.: Reticulum cell sarcoma of bone, 1950, **63,** 136 (ab)

Khoo, F. Y.: Congenital pseudarthrosis of tibia and its relation to fragilitas ossium, 1950, **63,** 138 (ab)
—— Osteochondritis of cuboid associated with tuberculosis of adjacent tarsal bones; report of case, 1951, **65,** 659 (ab)
—— and **Kuo, C. L.:** Unusual anomaly of inferior portion of scapula, 1949, **62,** 601 (ab)
Khov, P. N.: See **Wyatt, J. P.,** jt. auth.
Kidd, H. M., and **Christopherson, E.:** Broncholithiasis and bronchooesophageal fistula, 1952, **67,** 142 (ab)
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—— abscess; pyelographic sign in diagnosis (D. T. Prehn), 1948, **59,** 148 (ab)
—— air insufflation, perirenal; new technic (F. J. Barquin), 1948, **59,** 614 (ab)
—— and urinary bladder, multiple malignancy (H. L. Miller), 1951, **65,** 849 (ab)
—— anomalous renal artery; translumbar arteriography (P. G. Smith, A. T. Evans, E. C. Elsey and B. Felson), 1952, **67,** *186
—— arteriography and aortography following percutaneous retrograde catheterization of femoral artery and aorta (B. S. Abeshouse, I. Scherlis, M. Golden and M. Rubin), 1952, **68,** 528 (ab)
—— atrophy, acquired (E. P. Pendergrass, R. H. Chamberlain and F. P. Brooks), 1948, **59,** *652
—— blood supply; evaluation employing translumbar aortography (A. K. Doss and H. A. Quirarte), 1952, **67,** 529 (ab)
—— calcification; nephrocalcinosis in children (J. J. Cancelmo and R. S. Bromer), 1951, **65,** *910
—— calcification with distal tubular dysfunction (R. E. Cooke and C. R. Kleeman), 1951, **66,** 989 (ab)
—— calcinosis with parathyroid tumor; case (J. D. Kirschbaum and H. T. Wilson), 1952, **67,** 677 (ab)
—— calculi; layering phenomenon (C. Gottlieb, M. H. Poppel and S. L. Beranbaum), 1952, **67,** *410
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—— calculi; Manuel Estiu test (M. Rocha), 1951, **65,** 339 (ab)
—— calculi; nephrolithiasis with renal tubular failure (S. Israels, H. Muth and I. Zeavin), 1950, **64,** 700 (ab)
—— calculi; radioactive phosphorus study of phosphate exchange between urine in renal pelvis and renal calculi containing phosphate (J. A. Benjamin, W. F. Newman, H. E. Thompson and C. Waterhouse), 1951, **65,** 336 (ab)
—— calculi, spontaneous rupture (L. A. Martineau and E. F. Turkel), 1948, **59,** *365
—— calyx, dilatation: hydrocalycosis (O. J. Wilhelmi), 1950, **64,** 170 (ab)
—— cancer (H. L. Kretschmer), 1951, **66,** 670 (ab)
—— cancer, metastases in bone; roentgen appearance (R. S. Sherman and A. T. Pearson), 1949, **62,** 298 (ab)
—— cancer, metastases; secondary metastatic pulsations from renal tumor; case (B. C. Nolle, Jr.), 1948, **59,** 592 (ab)
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—— cyst, simple or solitary; surgical emergencies, spontaneous rupture (N. B. Powell), 1951, **65,** 162 (ab)
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—— diffuse leukemic infiltration in children; roentgen diagnosis (J. F. Gowdey and E. B. D. Neuhauser), 1948, **60,** *13
—— dilatation; problem of pyelorenal ectasias (L. A. Surraco and J. Lockhart), 1951, **66,** 504 (ab)
—— disease, bilateral surgical (J. F. McCahey), 1952, **67,** 529 (ab)
—— disease; osteonephropathy in children (J. J. Cancelmo and R. S. Bromer), 1951, **65,** *889
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—— ectopic, crossed (M. Paoletti), 1951, **66,** 987 (ab)
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—— hypoplasia and agenesis; translumbar arteriography (P. G. Smith, A. T. Evans, E. C. Elsey and B. Felson), 1952, **67,** *188
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—— infarction; translumbar arteriography (P. G. Smith, A. T. Evans, E. C. Elsey and B. Felson), 1952, **67,** *190
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—— osteitis fibrosa superimposed on senile osteoporosis; case without parathyroid hyperplasia and with ureteritis cystica (G. W. Cottrell), 1948, **59,** 596 (ab)
—— osteogenic sarcoma involving (H. G. Hamer and W. N. Wishard), 1948, **60,** 718 (ab)
—— osteodystrophy; case; clinical aspect (C. O. Oldfeldt), 1949, **62,** 156 (ab); pathological-anatomical account (H. Enell), 1949, **62,** 156 (ab)
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—— pain; intravenous urography in acute renal colic (T. J. Florence, W. S. Howland and H. S. Weens), 1948, **59,** 309 (ab)
—— papillary necrosis; clinical and experimental correlation (E. E. Muirhead, J. Vanatta and A. Grollman), 1950, **63,** 780 (ab)
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—— pelvis, dyskinesis (C. E. Alken), 1951, **65,** 301 (ab)
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—— polycystic disease; roentgen signs (R. Hickel and P. Cornet), 1950, **63,** 280 (ab)
—— polycystic; hypernephroma in (W. G. Hayward), 1948, **59,** 310 (ab)
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—— renal fascia (G. A. G. Mitchell), 1950, **64,** 702 (ab)
—— rickets (J. L. Richardson), 1948, **59,** 597 (ab)
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—— roentgen reticular appearance of perirenal fat tissue in extraperitoneal pneumoabdomen (L. Vespignani), 1952, **68,** 835 (ab)
—— roentgen visualization; intravenous nephrography (H. S. Weens, H. M. Olnick, D. F. James and J. V. Warren), 1951, **65,** *411
—— rupture, spontaneous (L. A. Martineau and E. F. Turkel), 1948, **59,** *365
—— small, pyelonephritis; roentgen considerations (E. P. Pendergrass, R. H. Chamberlain and F. P. Brooks), 1948, **59,** *651
—— solitary cyst and its relationship to renal tumor (A. Walsh), 1952, **68,** 839 (ab)
—— splenic-renal anastomosis for treatment of portal hypertension; case (A. J. Pavlovsky, S. G. Aguirre and J. Schavelzon), 1951, **65,** 164 (ab)
—— spontaneous circumrenal hematoma; case (S. I. Levy and N. Hudson), 1952, **67,** 1019 (ab)
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—— spontaneous renoduodenal fistulas (J. D. King), 1950, **64,** 702 (ab)
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—— true renal-artery aneurysm; case (R. R. Berneike and H. M. Pollock, Jr.), 1951, **65,** 847 (ab)
—— tuberculosis (H. L. Kretschmer), 1952, **68,** 841 (ab)
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—— tuberculosis, microradiography (scientific exhibit) (W. S. Tirman, T. E. Caylor and H. D. Caylor), 1952, **68,** 823
—— tuberculosis; significance of fornix backflow in excretion urography; significance in differential diagnosis (A. Lindbom), 1948, **59,** 150 (ab)
—— tuberculosis; two extreme forms of autonephrectomy (J. Fischmann), 1952, **67,** 529 (ab)
—— tumor and cyst; differential diagnosis (G. C. Prather), 1951, **66,** 307 (ab)
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—— tumors, adenoma (A. B. Cecil), 1948, **59,** 591 (ab)
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—— tumors in children (M. White), 1952, **68,** 839 (ab)
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—— tumors, hypernephroma, bilateral (F. L. Senger, J. J. Bottone and G. E. Murray), 1948, **59,** 592 (ab)
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—— optimum; selection for dental radiography (A. H. Wuehrmann and C. J. Monacelli), 1952, **68,** 169 (ab)
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—— active bronchopulmonary lithiasis (E. Freedman and J. H. Billings), 1950, **63,** 942 (ab)
—— acute primary blastomycosis (C. P. Bonoff), 1950, **64,** 1034 (ab)
—— acute pulmonary interstitial and mediastinal emphysema (airblock) and pneumothorax in infancy and early childhood (H. Abramson, G. D. Rook and C. H. Nau), 1951, **65,** 975 (ab)
—— adenomatosis; clinical review and 3 cases (A. B. Weir, Jr.), 1951, **65,** 645 (ab)
—— adenomatosis; 4 cases (J. C. King and D. S. Carroll), 1951, **66,** 846 (ab)
—— adenomatosis; further roentgen observations (L. W. Paul and J. H. Juhl), 1951, **66,** 847 (ab)

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—— adenomatosis with a new laboratory finding (W. H. Hatfield and J. E. Hill), 1949, **62,** *525
—— agenesis, 1951, **66,** 643 (E)
—— agenesis, lobar (D. R. Morton, K. P. Klassen and E. H. Baxter), 1951, **66,** 489 (ab)
—— aluminum (K. H. Ehrecke), 1952, **67,** 515 (ab)
—— alveolar adenomatosis (S. J. Shipman, H. B. Stephens and F. M. Binkley), 1950, **64,** 523 (ab)
—— alveolar adenomatosis (H. B. Stephens and S. J. Shipman), 1951, **65,** 505 (ab)
—— alveolar adenomatosis; case (J. H. Meyer), 1950, **64,** 679 (ab)
—— alveolar adenomatosis in man; is this same disease as Jaagsiekte in sheep? (D. A. Wood and P. H. Pierson), 1948, **59,** 445 (ab)
—— amebiasis with pulmonary involvement (F. A. Hughes, Jr. and K. F. Westphal), 1949, **61,** 122 (ab)
—— anatomy; analysis of variations in bronchovascular pattern of right upper lobe of 50 lungs (E. A. Boyden and J. G. Scannell), 1948, **60,** 708 (ab)
—— anatomy and physiology of lesser circulation as indicated by its behavior in health and disease (L. R. Sante), 1949, **61,** *1
—— anatomy; bronchopulmonary segments (H. L. Temple and J. A. Evans), 1950, **63,** *26
—— anatomy; bronchopulmonary segments; clinical applications (G. R. Krause and M. Lubert), 1952, **67,** 143 (ab)
—— anatomy; different segments, different behavior (C. Esser), 1950, **64,** 676 (ab)
—— anatomy; relation of capillaries to alveolar structure (L. R. Sante), 1949, **61,** *5
—— anatomy, roentgen (P. Chatton and A. Maleki), 1948, **60,** 565 (ab)
—— anatomy; synthesis of prevailing pattern of bronchopulmonary segments in light of their variations (E. A. Boyden), 1950, **63,** 938 (ab)
—— anatomy; vascular structure (L. R. Sante), 1949, **61,** *5
—— angiocardiography of prominent pulmonary artery segment (J. E. Miller), 1950, **64,** *214
—— angiography and bronchography as aid in planning surgical treatment of pulmonary tuberculosis (J. Gordon, W. B. Zinn, R. Brook and P. C. Pratt), 1952, **68,** 142 (ab)
—— angiography; differential diagnosis of unresolved pneumonia and bronchiogenic carcinoma (P. G. Keil and D. J. Schissel), 1951, **65,** 827 (ab)
—— angiography study of form and function of remaining lung after pneumonectomy (H. Neuhof and R. A. Nabaoff), 1949, **62,** 754 (ab)
—— anomalous circulation; angiocardiographic demonstration in aplasia of lung (M. D. Ingram, Jr., G. W. Hudson and T. J. Davis), 1950, **64,** *409
—— apex, net-like appearance (E. Lattanzio), 1950, **64,** 318 (ab)
—— apex; side-view tomography (C. Lanari), 1950, **63,** 937 (ab)
—— apical lesions; radiological demonstration (E. G. Hoffstaedt), 1951, **65,** 969 (ab)
—— aplasia (W. M. Pierson), 1948, **59,** 147 (ab)
—— aplasia of upper and middle lobe of right lung with hypoplasia of pulmonary artery and dextrocardia (M. Vest), 1950, **64,** 153 (ab)
—— aplasia, with angiocardiographic demonstration of anomalous pulmonary circulation (M. D. Ingram, Jr., G. W. Hudson and T. J. Davis), 1950, **64,** *409
—— arterial circulation in segmental disturbances of aeration; angiographic examination (L. Stuhl, P. Y. Hatt and J. Sebillotte), 1952, **67,** 508 (ab)

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—— arteriolosclerosis; cor pulmonale from (J. S. Wells and P. Brown), 1951, **66,** *894
—— arteriovenus anastomoses studied by arterial injection and venous recovery of microscopic glass spheres in animals (M. Prinzmetal, E. M. Ornitz, Jr., B. Simkin and H. C. Bergman), 1948, **60,** 857 (ab)
—— arteriovenous aneurysm; case (A. Ettinger, H. Mangendantz and E. A. Russo), 1950, **63,** 938 (ab)
—— arteriovenous fistula; angiographic demonstration (C. E. Duisenberg and L. Arismendi), 1950, **63,** 938 (ab)
—— arteriovenous fistula (H. C. Maier, A. Himmelstein, R. L. Riley and J. J. Bunin), 1948, **60,** 709 (ab)
—— arteriovenous fistula (J. Carswell, Jr.), 1951, **65,** 643 (ab)
—— arteriovenous fistula (H. A. Salvesen and F. Marstrander), 1952, **67,** 509 (ab)
—— arteriovenous fistula syndrome; review of literature of 27 cases (P. Crane, H. H. Lerner and E. A. Lawrence), 1949, **62,** *418
—— arteriovenous fistulas (S. Baer, A. Behrend and H. L. Goldburgh), 1951, **65,** 507 (ab)
—— artery obstruction; case with angiocardiographic demonstration (W. S. Tirman, J. L. Eisaman and J. T. Lloyd), 1952, **67,** 849 (ab)
—— ascariasis; relationship to eosinophil lung and Loffler's syndrome (A. van der Sar), 1948, **60,** 711 (ab)
—— atelectatic, blood flow through (V. O. Björk and E. F. Salen), 1951, **66,** 841 (ab)
—— azygos lobe; involvement in pulmonary disease (E. Rothstein), 1949, **61,** *195
—— azygos lobe revealed by planar roentgenography (A. G. Cohen and A. S. Dooneief), 1951, **65,** *183
—— azygos vein dilatation; roentgen sign of venous engorgement (F. G. Fleischner and S. W. Udis), 1952, **67,** *569
—— bagasse disease (D. V. Lemone, W. G. Scott, S. Moore and A. L. Koven), 1949, **61,** 578 (ab)
—— bilateral pneumothorax, with pneumomediastinum, atelectasis, pulmonary edema, and subcutaneous emphysema occurring during labor; mediastinal air block (N. J. Furst and L. R. Lawrence), 1949, **62,** *798
—— bizarre manifestations in heart disease (W. Newman and H. G. Jacobson), 1952, **68,** 495 (ab)
—— blast injury; case occurring in peace time (M. Schneider and C. P. Klein), 1951, **65,** 502 (ab)
—— blastomycosis (J. Moyses), 1949, **62,** 446 (ab)
—— blood supply anatomy as applied to chest radiology (T. Lodge), 1948, **59,** 448 (ab)
—— blood supply; relationship of roentgen appearance of pulmonary artery to pulmonary hemodynamics (R. F. Healey, J. W. Dow, M. C. Sosman and L. Dexter), 1949, **62,** *777
—— blood supply; thromboangitis with aneurysm of pulmonary artery (L. E. Thompson and B. Gerstl), 1948, **59,** 584 (ab)
—— blood volume determination by injection of radiophosphorus (G. Nylin and H. Celander), 1950, **64,** 363 (ab)
—— Boeck's disease (H. Hartweg), 1950, **64,** 680 (ab)
—— Boeck's sarcoid, clinical course (H. Hartweg), 1951, **66,** 127 (ab)
—— bronchographic aspects of some pulmonary segments (J. Ioannou), 1950, **64,** 317 (ab)
—— bronchography, advances (A. Baranger, P. Delie and J. M. Lemoine), 1951, **65,** 500 (ab)

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—— bronchopulmonary geotrichosis in children (R. H. Kunstadter, A. Milzer and F. Whitcomb), 1950, **64,** 681 (ab)
—— bronchopulmonary hypogenesis; diagnosis in the living (I. Meschan and J. D. Calhoun), 1951, **66,** 843 (ab)
—— bronchopulmonary mycosis; simultaneous primary occurrence in 4 children and their mother with subsequent healing by diffuse miliary calcification; 12 year observation (B. M. Hamil), 1950, **64,** 1035 (ab)
—— bronchopulmonary segments (B. R. Sreenivasan), 1952, **68,** 994 (ab)
—— brucellosis (W. A. Harvey), 1948, **60,** 568 (ab)
—— calcification (E. L. Lame and E. P. Pendergrass), 1949, **61,** 428 (ab)
—— calcification and histoplasmin sensitivity (P. Green), 1951, **66,** 292 (ab)
—— calcification and histoplasmin-tuberculin skin sensitivity (L. W. Sontag and J. E. Allen), 1948, **59,** 760 (ab)
—— calcification, disseminated; 114 cases with observations of an antecedent pulmonary disease in 15 individuals (F. C. White and H. E. Hill), 1951, **65,** 826 (ab)
—— calcification in university students in Ohio; geographic distribution (J. A. Prior, J. W. Wilce and W. Palchanis), 1951, **66,** 489 (ab)
—— calcification, nontuberculous (A. D. Biggs and R. C. Rigby), 1948, **60,** 568 (ab)
—— calcification—tuberculosis? histoplasmosis? (F. N. Silverman), 1950, **64,** *747
—— calcification, tuberculosis; clinical and experimental study (R. G. Bloch), 1948, **59,** *853
—— calcifications and histoplasmin sensitivity; Charleston, S.C., study (J. I. Waring and D. B. Gregg), 1948, **59,** 443 (ab)
—— calcifications and histoplasmin sensitivity; Tennessee study (A. Christie and J. C. Peterson), 1948, **59,** 442 (ab)
—— calcifications, relation to histoplasmin and tuberculin sensitivity (H. A. Dickie and E. A. Clark), 1948, **60,** 568 (ab)
—— calcifications; tuberculin, coccidioidin and histoplasmin sensitivity (W. G. Beadenkopf and others), 1949, **62,** 753 (ab)
—— calcified metastatic deposits in peritoneal cavity, liver and right lung field from papillary cystadenocarcinoma of ovary (L. Nathanson), 1950, **64,** *467
—— cancer (E. K. Frey), 1950, **63,** 947 (ab)
—— cancer, alveolar cell (R. R. Smith, K. P. Knudtson and W. L. Watson), 1950, **64,** 324 (ab)
—— cancer, alveolar cell (N. C. Delarue and E. A. Graham), 1950, **63,** 449 (ab)
—— cancer, alveolar cell (H. I. McCoy), 1952, **67,** 517 (ab)
—— cancer and smoking; preliminary report (R. Doll and A. B. Hill), 1951, **66,** 488 (ab)
—— cancer and tobacco smoking (M. L. Levin, H. Goldstein and P. R. Gerhardt), 1951, **65,** 504 (ab)
—— cancer and tuberculosis, coexistence (E. Muntean and R. Amon), 1951, **65,** 974 (ab)
—— cancer; angiocardiographic findings in 100 consecutive proved cases (I. Steinberg and C. T. Dotter), 1952, **68,** 1006 (ab)
—— cancer; angiocardiography in differential diagnosis (H. Neuhof, M. L. Sussman and R. A. Nabatoff), 1950, **63,** 452 (ab)
—— cancer, apical, and tuberculosis (M. Bergmann, B. A. Shatz and I. J. Flance), 1949, **62,** 590 (ab)

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—— cancer, bilateral alveolar, associated with injection of thorotrast (S. Abrahamson, M. H. O'Conner and M. L. Abrahamson), 1951, **65,** 504 (ab)
—— cancer, bronchial; arteriography; diagnostic value (P. G. Keil, C. A. Voelker and D. J. Schissel), 1951, **65,** 149 (ab)
—— cancer, bronchiogenic (K. Laivaag), 1950, **64,** 677 (ab)
—— cancer, bronchiogenic; diagnostic value of angiography (D. J. Schissel and P. J. Keil), 1952, **67,** *51
—— cancer, bronchiogenic; fate of oil particles and their possible relationship to development of (L. R. Sante), 1949, **62,** *788
—— cancer, bronchogenic, coexistent with active pulmonary tuberculosis (E. Robbins and G. Silverman), 1950, **63,** 129 (ab)
—— cancer, bronchogenic; non-malignant intrathoracic lesions simulating (L. A. Brewer, III, W. Jones and F. S. Dolley), 1949, **62,** 444 (ab)
—— cancer, bronchogenic, primary, in children; review of literature; case (C. K. Cayley, H. J. Caez and W. Mersheimer), 1952, **67,** 848 (ab)
—— cancer, bronchogenic; radiologist's responsibility (A. C. Singleton), 1951, **66,** 845 (ab)
—— cancer; broncho-pulmonary segment analysis in (B. R. Sreenivasan), 1952, **68,** 994 (ab)
—— cancer; bronchopulmonary, apical form (N. Romano and R. Eyherabide), 1949, **61,** *457
—— cancer, cavitary form (F. Isaac and R. E. Ottoman), 1950, **64,** 152 (ab)
—— cancer, cerebral metastases (F. De Simone), 1951, **66,** 122 (ab)
—— cancer; clinical analysis and follow-up study of 502 cases (W. F. Rienhoff, Jr.), 1950, **64,** 678 (ab)
—— cancer; cytologic diagnosis (S. M. Farber and others), 1951, **65,** 131 (bk. rev.)
—— cancer; cytologic diagnosis evaluation (S. M. Farber, A. K. McGrath, M. A. Benioff and M. Rosenthal), 1951, **66,** 488 (ab)
—— cancer; cytologic study of bronchial secretions (P. Hernandez Gonzalo, V. Pardo-Menendez, J. Miquel Franca and C. P. Mesa), 1950, **64,** 522 (ab)
—— cancer; diagnosis and treatment (O. J. Cames and A. Cesanelli), 1950, **64,** 521 (ab)
—— cancer, diagnosis; value of cytologic study of sputum and bronchial secretions (L. B. Woolner and J. R. McDonald), 1949, **62,** 753 (ab)
—— cancer; early diagnosis and treatment (R. H. Overholt and F. M. Woods), 1952, **68,** 505 (ab)
—— cancer; early diagnosis by tracheal aspiration (W. G. Cahan and H. W. Farr), 1951, **65,** 504 (ab)
—— cancer; hypertrophic osteoarthropathy in (J. D. Pattison, Jr., E. Beck and W. B. Miller), 1952, **67,** 858 (ab)
—— cancer in Iceland (N. Dungal), 1951, **66,** 128 (ab)
—— cancer, inoperable; use of interstitial radon seeds and needles (I. M. Ariel, J. R. Head, H. T. Langston and E. E. Avery), 1950, **63,** 957 (ab)
—— cancer; necessity for exploratory thoracotomy after negative bronchoscopy (H. Kaunitz), 1951, **65,** 827 (ab)
—— cancer; operability, angiocardiographic diagnosis (scientific exhibit) (C. T. Dotter, I. Steinberg and C. Holman), 1949, **62,** 737
—— cancer; operability; angiocardiographic study of 53 consecutive proved cases (C. T. Dotter, I. Steinberg and C. W. Holman), 1950, **64,** *222
—— cancer, peripheral (instruction course) (L. W. Paul and J. H. Juhl), 1951, **66,** 272

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—— cancer, primary; clinical study of 1,205 cases (I. M. Ariel and others), 1950, **64,** 1037 (ab)
—— cancer, primary; diagnosis by cytological studies of sputum and bronchial secretions (S. M. Farber, M. A. Benioff and G. Tobias), 1949, **62,** 446 (ab)
—— cancer, primary; 10 year study at Presbyterian Hospital in City of New York (R. L. Moore), 1952, **67,** 857 (ab)
—— cancer, primary, with special consideration of its etiology (E. A. Graham), 1952, **67,** 517 (ab)
—— cancer, primary, with special reference to apical lung tumors (J. J. Stein), 1948, **60,** *58
—— cancer, radiotherapy; lipoid pneumonia (noninhalation) after (S. J. DeNavasquez, J. R. Trounce and A. B. Wayte), 1952, **67,** 1030 (ab)
—— cancer; roentgen diagnosis of intrathoracic lymph nodes metastases in (J. J. McCort and L. L. Robbins), 1952, **68,** 499 (ab)
—— cancer; severe hypertrophic pulmonary osteoarthropathy; operation and recovery (J. R. Fischl), 1950, **64,** *42
—— cancer suspects in mass chest x-ray survey; follow-up study (C. L. Scamman), 1952, **67,** 506 (ab)
—— cancer, terminal bronchiolar or "alveolar cell"; 33 cases (W. L. Watson and R. R. Smith), 1952, **68,** 499 (ab)
—— cancer, traumatic; pathogenesis of cicatricial lung cancer (J. Dahmann), 1952, **68,** 680 (ab)
—— cancer; treatment by artificial radioactivity (Zn63 and Au198) (J. H. Muller and P. H. Rossier), 1952, **67,** 703 (ab)
—— cancer with acanthosis nigricans; case (P. W. Spear), 1951, **66,** 293 (ab)
—— candidosis (moniliasis); 3 cases (J. E. Morin, S. Leblond and P. Fiset), 1952, **68,** 143 (ab)
—— captive (scientific exhibit) (J. E. Lofstrom, D. A. Koch, W. M. Tuttle and P. V. O'Rourke), 1949, **62,** 736
—— carcinosarcoma; review of literature and report of 2 cases treated by pneumonectomy (M. Bergmann, L. V. Ackerman and R. L. Kemler), 1952, **68,** 500 (ab)
—— cavitary disease due to less frequent etiological factors (J. Stein and A. Sheinmel), 1950, **64,** 1034 (ab)
—— cavities "below the diaphragm"; phenomenon sometimes seen in pneumoperitoneum treatment of pulmonary tuberculosis (P. Morgenstern and I. Pine), 1948, **59,** *677
—— cavities; localization by modified roentgenographic technic (J. Gordon and R. Brook), 1948, **60,** 704 (ab)
—— cavity behavior in pulmonary tuberculosis; some aspects (G. A. P. Hurley), 1951, **66,** 292 (ab)
—— cervical hernia of (W. L. Palazzo and T. A. Garrett), 1952, **67,** 513 (ab)
—— changes after intensive irradiation treatment of esophageal cancer (J. R. Freid), 1948, **59,** *555
—— changes associated with manufacture of alumina abrasives (C. G. Shaver), 1949, **62,** 589 (ab)
—— changes following cholecystectomy (I. Rudnikoff and C. I. Headland), 1952, **67,** 847 (ab)
—— changes in erythema nodosum (J. H. Middlemiss), 1950, **63,** 940 (ab)
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—— chondrosarcoma, primary (L. M. Lowell and J. E. Tuhy), 1950, **64,** 324 (ab)
—— chronic emphysematous cavity (H. Vollmer), 1950, **64,** 318 (ab)
—— chronic granulomatosis in beryllium workers; pathological physiology (R. A. Bruce and others), 1951, **65,** 970 (ab)
—— chronic nonspecific suppurative pneumonitis (R. D. Kershner and W. E. Adams), 1949, **62,** 445 (ab)
—— coccidioidomycosis (H. E. Bass, A. Schomer and R. Berke), 1949, **62,** 771 (ab)
—— coccidioidomycosis, cavitation in (C. E. Smith, R. R. Beard and M. T. Saito), 1949, **62,** 588 (ab)
—— coccidioidomycosis; hazard involved in diagnostic procedures; case (J. M. Looney and T. Stein), 1950, **64,** 720 (ab)
—— coccidioidomycosis, primary; outbreak in Los Angeles County, Calif. (M. D. Kritzer, M. Biddle and J. F. Kessel), 1951, **66,** 853 (ab)
—— coccidioidomycosis; residual cavities; follow-up studies (R. Berke, A. Schomer and H. E. Bass), 1950, **64,** 720 (ab)
—— collapse, acquired, of upper lobes; x-ray appearances (G. Simon), 1951, **65,** 152 (ab)
—— collapse, and bronchiectasis in pertussis (A. W. Lees), 1951, **66,** 487 (ab)
—— collapse; asthma complicated by recurrent spontaneous pneumothorax (J. R. Wiseman, B. T. Brown and A. G. Gandia), 1951, **65,** 643 (ab)
—— collapse segmental; bronchiectasis in primary tuberculous lesions associated with (J. C. Roberts and L. G. Blair), 1951, **65,** 151 (ab)
—— collapse, chronic, and pneumonitis of middle lobe (D. L. Paulson and R. R. Shaw), 1950, **64,** 520 (ab)
—— collapse; correlation of postmortem pathological observations with chest roentgenograms (D. S. Beilin, J. P. Fink and L. W. Leslie), 1952, **68,** 312 (ab)
—— collapse, in newborn, cardiac changes; roentgen findings (J. F. Martin and H. L. Friedell), 1952, **67,** *907
—— collapse, in newborn, diaphragm in (J. F. Martin and H. L. Friedell), 1952, **67,** *907
—— collapse, in newborn, mediastinum in (J. F. Martin and H. L. Friedell), 1952, **67,** *906
—— collapse, in newborn; roentgen findings with special references to changes in cardiac silhouette (J. F. Martin and H. L. Friedell), 1952, **67,** *905
—— collapse, in newborn, thorax in (J. F. Martin and H. L. Friedell), 1952, **67,** *906
—— collapse, incomplete pneumothorax; obliteration of pleural space with kaolin (E. R. Mordasini and H. Sighart), 1951, **65,** 502 (ab)
—— collapse; influence on lesser circulation (L. R. Sante), 1949, **61,** *7
—— collapse, linear basal, after therapeutic phrenic nerve interruption (R. P. Jahn and J. K. Olinger), 1952, **68,** 1009 (ab)
—— collapse; pulmonary function after pneumothorax (G. Birath), 1949, **61,** 577 (ab)

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—— collapse; roentgen studies of methyl methacrylate (lucite) plombage in extrapleural pneumolysis (H. D. Kerman), 1948, **60,** *51
—— collapse, spontaneous (P. D. Crimm), 1949, **62,** 590 (ab)
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—— collapse, spontaneous; 105 cases (L. A. Rottenberg and R. Golden), 1950, **63,** 943 (ab)
—— collapse; surgical management of chronic "spontaneous" pneumothorax (L. A. Brewer, F. S. Dolley and B. H. Evans), 1950, **64,** 1037 (ab)
—— collapse, total left, after bronchography (K. Reinhardt), 1952, **67,** 513 (ab)
—— collapse; traumatic bronchial rupture with occlusion (P. J. Hodes, J. Johnson and J. P. Atkins), 1948, **60,** *448
—— collateral circulation; genesis and functional implications (A. A. Liebow and others), 1951, **65,** 973 (ab)
—— complications of acute bulbar poliomyelitis (G. Jacobson, S. R. Cohen and R. A. Carter), 1952, **68,** 997 (ab)
—— complications of cardiospasm (A. S. Breakey, C. T. Dotter and I. Steinberg), 1952, **68,** 495 (ab)
—— complications in calcareous pancreatitis (C. A. Domzalski, Jr.), 1950, **64,** 167 (ab)
—— complications of insulin shock therapy (R. J. Gross and F. H. Schaefer), 1950, **63,** *191
—— conditions which result in increased pressure within lesser circulation (C. A. Good and T. J. Dry), 1949, **61,** *26
—— congenital arteriovenous aneurysm (A. Grishman, M. H. Poppel, R. S. Simpson and M. L. Sussman), 1949, **62,** *500
—— congenital dilatation of pulmonary arterial tree; relation to Ayerza's disease and primary pulmonary arteriosclerosis (M. A. M. Gold), 1948, **59,** 148 (ab)
—— congestion and edema; correlation of postmortem pathological observations with chest roentgenograms (D. S. Beilin, J. P. Fink and L. W. Leslie), 1952, **68,** 312 (ab)
—— congestion and pulmonary hyperemia; differential diagnosis by roentgen kymography (P. Thurn), 1952, **68,** 507 (ab)
—— cyst, congenital, tension type (J. M. Walker, W. B. Taggart and H. J. Staton), 1949, **62,** 587 (ab)
—— cystic disease (J. E. Strode), 1950, **63,** 946 (ab)
—— cystic disease, congenital (W. A. Evans, Jr.), 1949, **62,** 567 (E)
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—— cystic disease, congenital (R. M. Levine), 1951, **65,** 147 (ab)
—— cystic disease, congenital, associated with anomalous arteries (F. G. Kergin), 1952, **68,** 1003 (ab)
—— cystic disease, in infants and children (M. M. Ravitch and J. B. Hardy), 1950, **63,** 945 (ab)
—— cystic fibrosis in generalized scleroderma; 2 cases (R. E. Church and A. R. P. Ellis), 1951, **65,** 148 (ab)
—— cystic malformation, congenital; differential diagnosis and treatment (W. E. Adams), 1949, **62,** 587 (ab)
—— cysts (J. B. Jobin), 1951, **65,** 975 (ab)

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—— cysts, congenital, and those following staphylococcic pneumonia; differentiation (W. J. Potts and W. L. Riker), 1951, **66,** 489 (ab)
—— cysts, in 15 day old infant; lobectomy and recovery (W. E. Burnett and H. T. Caswell), 1949, **61,** 427 (ab)
—— cysts; origin in childhood (D. J. Conway), 1952, **68,** 998 (ab)
—— delayed complications of bronchography (P. W. Robertson and K. D. Forgan), 1952, **67,** 137 (ab)
—— discrepancies between clinical-radiological and bronchospirometric findings (R. F. Vaccarezza, A. Lanari and A. Soubrie), 1949, **61,** 733 (ab)
—— distribution of shrunken lung segments with bronchiectases (P. C. Schmid), 1951, **66,** 842 (ab)
—— disease; angiocardiography (C. T. Dotter and I. Steinberg), 1952, **67,** 850 (ab)
—— disease associated with cystic fibrosis of pancreas (L. B. Dickey), 1950, **64,** 1031 (ab)
—— disease; bronchogenic cancer as differential diagnostic problem (J. H. Moyer and A. J. Ackerman), 1952, **67,** 147 (ab); 148 (ab)
—— disease; diagnosis, importance of intra-alveolar pressure (N. Westermark), 1949, **62,** 445 (ab)
—— disease in workers exposed to beryllium compounds; roentgen characteristics (L. M. Pascucci), 1948, **60,** 705 (ab)
—— disease may antedate pneumonia (C. L. Hinkel), 1949, **61,** *338
—— diseases affecting peripheral vascular system; roentgen appearance of chest in (R. P. Barden and D. A. Cooper), 1949, **62,** 906 (ab)
—— diseases producing retrocardiac shadows (S. S. Nemec), 1949, **62,** 286 (ab)
—— dust lesions vs. tuberculosis (L. G. Cole), 1950, **63,** 524 (bk. rev.)
—— edema (W. A. Goodrich), 1949, **62,** 909 (ab)
—— edema and "batswing" shadow (C. J. Hodson), 1950, **64,** 521 (ab)
—— edema, centrally caused (V. Buchtala), 1951, **66,** 841 (ab)
—— edema; experimental observations on dogs following acute peripheral blood loss (R. M. Eaton), 1950, **64,** 899 (ab)
—— edema; roentgen diagnosis (L. G. Rigler), 1949, **61,** *745
—— edema, transient focal (C. B. Peirce, E. F. Crutchlow, A. T. Henderson and J. W. McKay), 1948, **59,** 441 (ab)
—— effects of internal irradiation with P32 in mice (S. Warren, J. C. MacMillan and F. J. Dixon), 1951, **66,** 690 (ab)
—— effects of toxic gases and smokes; experimental radiographic investigation (G. M. Ardran), 1950, **64,** 904 (ab)
—— embolism, acute cor pulmonale in absence (I. Mack, R. Harris and L. N. Katz), 1951, **65,** 647 (ab)
—— embolism and infarction; correlation of postmortem pathological observations with chest roentgenograms (D. S. Beilin, J. P. Fink and L. W. Leslie), 1952, **68,** 312 (ab)
—— embolism, early pleural effusion and pneumonia or bronchopneumonia (G. Moberg), 1948, **60,** 712 (ab)
—— embolism; experimental angiocardiographic study (R. P. Lochhead, D. J. Roberts, Jr. and C. T. Dotter), 1952, **68,** *627
—— embolism; incidence at necropsy in relation to peripheral thrombosis (J. M. Spitzer, N. Rosenthal, M. Weiner and S. Shapiro), 1951, **65,** 503 (ab)

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—— embolism, oil (M. E. Grossmann), 1948, **59,** 441 (ab)
—— embolism without infarction (R. Shapiro and L. G. Rigler), 1948, **60,** *460
—— emphysema, bullous (M. S. Lloyd), 1950, **64,** 318 (ab)
—— emphysema, diagnosis (A. Bogoch and J. E. Walker) 1950, **64,** 527 (ab)
—— emphysema, treatment, pneumoperitoneum (M. G. Carter, E. A. Gaensler and A. Kyllonen), 1951, **66,** 291 (ab)
—— emphysema, progressive bilateral bullous (A. H. Price and G. Teplick), 1948, **59,** 147 (ab)
—— eosinophilia and Löffler's syndrome; relationship to pulmonary ascariasis (A. van der Sar), 1948, **60,** 711 (ab)
—— evaluation of lesser circulation as portrayed by the roentgenogram (W. W. Wasson), 1949, **61,** *30
—— excision for nontuberculous diseases, pulmonary tuberculosis after (H. I. Katz), 1951, **65,** 971 (ab)
—— excluded; syndrome due to amputation of pulmonary artery as shown by angiopneumography (M. Bariety, O. Monod, P. Choubrac and P. Joly), 1952, **67,** 847 (ab)
—— fibrosis; clinical aspects (D. S. King), 1950, **63,** 128 (ab)
—— fibrosis, clinically indeterminate; pathologic study (H. D. Peabody, Jr., H. J. Moersch and J. E. Edwards), 1952, **67,** 515 (ab)
—— fibrosis, acute diffuse interstitial (B. P. Potter and I. E. Gerber), 1949, **62,** 906 (ab)
—— fibrosis and cor pulmonale as outstanding manifestations in granulomatosis (S. J. Schneierson and L. Schneider), 1949, **62,** 284 (ab)
—— fibrosis, idiopathic; roentgen findings (L. L. Robbins), 1950, **63,** 128 (ab)
—— function (R. D. Dripps), 1949, **61,** *23
—— function after pneumothorax (G. Birath), 1949, **61,** 577 (ab)
—— function, influence of pachypleuritis on; bronchospirometric study (R. F. Vaccarezza and A. Soubrie), 1950, **63,** 943 (ab)
—— function; new method of determining separate lung function; temporary unilateral occlusion of pulmonary artery (E. Carlens, H. E. Hanson and B. Nordenstrom), 1952, **68,** 678 (ab)
—— function; progressive changes after pneumonectomy (E. A. Gaensler and J. W. Strieder), 1952, **67,** 859 (ab)
—— fungous diseases; recent advances with special reference to coccidioidomycosis and histoplasmosis (H. E. Bass), 1951, **65,** 826 (ab)
—— graphite pneumoconiosis (F. A. Joffe), 1952, **68,** 500 (ab)
—— granuloma, lipoid, after bronchography with iodized oil (R. P. Storrs, J. R. McDonald and C. A. Good), 1950, **64,** 322 (ab)
—— granulomatosis, chronic, in residents of a community near a beryllium plant; 3 autopsied cases (C. Chesner), 1951, **65,** 971 (ab)
—— granulomatosis, chronic, of beryllium workers; roentgen diagnosis (A. G. Robert), 1950, **63,** *467
—— granulomatosis, diffuse, due to beryllium (S. A. Wilson), 1949, **62,** 590 (ab)
—— granulomatosis, diffuse, in young women after exposure to berylium compounds in manufacture of radio tubes; 5 cases (P. Slavin), 1950, **64,** 524 (ab)
—— gumma (C. W. Findlay, W. L. Lehman and L. A. Rottenberg), 1950, **63,** 449 (ab)
—— hamartoma (E. A. Bragg, Jr. and G. Levene), 1950, **64,** 1033 (ab)

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—— hamartoma (J. H. Whiteside), 1951, **66,** 488 (ab)
—— hamartoma; improbability of preoperative diagnosis (W. E. Lemon and C. A. Good), 1951, **66,** 488 (ab)
—— hamartoma; roentgen significance (W. C. Hall), 1948, **60,** *605
—— hemangioma, cavernous (J. H. Forsee, H. W. Mahon and L. A. James), 1950, **64,** 1033 (ab)
—— hemorrhage, diffuse relapsing, or hemosiderosis pulmonum; new clinical diagnosis (J. Waldenström), 1948, **59,** 583 (ab)
—— hemosiderosis; clinical, radiological and pathological aspects (L. D. W. Scott, S. D. S. Park and A. C. Lendrum), 1948, **59,** 444 (ab)
—— hemosiderosis due to mitral disease; 6 cases simulating pneumoconiosis (E. P. Pendergrass, E. L. Lame and H. W. Ostrum), 1949, **61,** *443
—— hemosiderosis due to mitral heart disease (scientific exhibit) (E. P. Pendergrass, E. L. Lame and H. W. Ostrum), 1948, **60,** 557
—— hemosiderosis; typical roentgen findings (O. Elgenmark and S. R. Kjellberg), 1948, **60,** 705 (ab)
—— herniation in cervical region (H. A. Reinhart and M. B. Hermel), 1952, **68,** 141 (ab)
—— hilar densities simulating neoplasms (C. Gottlieb and H. S. Sharlin), 1948, **60,** 707 (ab)
—— histological study of 5 minute pulmonary neoplasms believed to represent early bronchogenic carcinoma (A. B. Petersen, W. C. Hunter and V. C. Sneedden), 1950, **64,** 324 (ab)
—— histoplasmosis; summary of data on reported cases and report on 2 patients treated by lobectomy (C. H. Hodgson, L. A. Weed and O. T. Clagett), 1952, **67,** 144 (ab)
—— Hodgkin's disease; roentgen appearance and therapeutic management (A. Sheinmel, B. Roswit and L. R. Lawrence), 1950, **64,** 1033 (ab)
—— hydatid disease, treatment (M. P. Susman), 1951, **65,** 148 (ab)
—— industrial pulmonary disease, pathogenesis (W. Machle), 1949, **62,** 489 (ab)
—— infarction, experimental, in dogs (D. W. Chapman, L. J. Gugle and P. W. Wheeler), 1950, **63,** 297 (ab)
—— infarction, influence on lesser circulation (L. R. Sante), 1949, **61,** *9
—— inferior accessory lobe and pericardial cysts; differential roentgen diagnosis (W. M. Loehr), 1952, **68,** *601
—— infiltration and blood eosinophilia in children (Loeffler's syndrome) (R. L. Nemir, A. Heyman, J. D. Gorvoy and E. N. Ervin), 1951, **66,** 841 (ab)
—— inflammations, nonspecific; roentgen therapy with minimum doses (R. Seyss), 1952, **67,** 180 (ab)
—— infrapulmonary pleural effusion (E. Rothstein and F. B. Landis), 1951, **66,** 291 (ab)
—— injuries (W. Steffens), 1952, **68,** 666 (bk. rev.)
—— intralobar sequestration associated with abnormal pulmonary artery; case (C. McDowell, D. Robb, J. R. Hinds and R. Nicks), 1952, **67,** 861 (ab)
—— intrapulmonary foreign bodies; bronchography in diagnosis and localization (K. H. Willmann), 1952, **67,** 847 (ab)
—— isolated disease of pulmonary valve and artery (A. L. Hyman and others), 1951, **66,** 857 (ab)
—— leiomyoma (R. B. Williams, Jr. and R. A. Daniel, Jr.), 1951, **65,** 827 (ab)
—— lesions; aspiration biopsy; value and limitations (G. P. Rosemond, W. E. Burnett and J. H. Hall), 1950, **63,** 452 (ab)
—— lesions, coin-like (scientific exhibit) (C. C. Birkelo, H. J. Klos and W. A. Chickering), 1949, **62,** 736

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—— lesions; development of calcification associated with sensitivity to histoplasmin (M. L. Furcolow), 1950, **64,** 321 (ab)
—— lesions; diagnosis discovered by mass roentgen survey (D. Clark, C. W. Tempel and K. D. A. Allen), 1951, **65,** 825 (ab)
—— lesions; importance of exploratory thoracotomy (C. R. Johnson, O. T. Clagett and C. A. Good), 1950, **63,** 451 (ab)
—— lesions, diffuse; observations and classification (H. Felson and G. W. Heublein), 1948, **59,** *59
—— lesions; symposium (R. T. Johnstone and U. V. Portmann), 1948, **59,** 299
—— lesions with mediastinal enlargement and increased prominence of hilar shadows (H. Felson and G. W. Heublein), 1948, **59,** *63
—— lingula pulmonis lesions; roentgen findings (T. F. Leigh and W. A. Hopkins), 1952, **68,** 144 (ab)
—— lipoma; unusual case (A. S. W. Touroff and G. P. Seley), 1952, **68,** 144 (ab)
—— lobar agenesis (D. R. Morton, K. P. Klassen and E. H. Baxter), 1951, **66,** 489 (ab)
—— lobectomy for pulmonary cysts in 15-day old infant; recovery (W. E. Burnett and H. T. Caswell), 1949, **61,** 427 (ab)
—— lobectomy in pulmonary histoplasmosis (C. H. Hodgson, L. A. Weed and O. T. Clagett), 1952, **67,** 144 (ab)
—— lobectomy; roentgenogram after (A. Linder), 1952, **67,** 859 (ab)
—— localization of pulmonary densities from postero-anterior roentgenograms (scientific exhibit) (B. Felson and H. Felson), 1949, **62,** 737
—— Löffler's syndrome in children (R. L. Nemir, A. Heyman, J. D. Gorvoy and E. N. Ervin), 1951, **66,** 841 (ab)
—— Löffler's syndrome; treatment with pencillin in oil and wax (M. S. Falk and V. D. Newcomer), 1950, **64,** 524 (ab)
—— Löffler's syndrome; report of cases in twins (F. R. Shechter and M. Graub), 1952, **68,** 334 (ab)
—— Löffler's syndrome; roentgen appearance of chest in diseases affecting peripheral vascular system of the lungs (R. P. Barden and D. A. Cooper), 1949, **62,** 907 (ab)
—— Löffler's syndrome; transient pulmonary infiltration with eosinophilia (C. A. Heiken and E. R. Wiese), 1952, **67,** 515 (ab)
—— Löffler's syndrome with creeping eruption (cutaneous helminthiasis) (D. O. Wright and E. M. Gold), 1948, **59,** 148 (ab)
—— lower, aberrant systemic arteries to (F. H. Cole, F. H. Alley and R. S. Jones), 1952, **68,** 998 (ab)
—— lymphangitic carcinomatosis; 6 case reports and review of literature (T. E. Hauser and A. Steer), 1952, **67,** 519 (ab)
—— lymphatic structures (L. R. Sante), 1949, **61,** *13
—— lymphosarcoma, primary; case (A. J. Anlyan, C. G. Lovingood and K. P. Klassen), 1951, **65,** 505 (ab)
—— lymphosarcoma; treatment with pituitary growth hormone (H. D. Moon, M. E. Simpson, C. H. Li and H. M. Evans), 1951, **65,** 342 (ab)
—— major pulmonary arteries, dilatation; pathologic features (instruction course) (J. E. Edwards), 1951, **66,** 265
—— manifestations in generalized xanthomatosis (E. R. Troxler and D. Niemetz), 1948, **59,** 768 (ab)
—— manifestations of diffuse scleroderma (G. Torelli), 1952, **67,** 845 (ab)
—— manifestations of scleroderma; anatomic-physiological correlation (D. M. Spain and A. G. Thomas), 1950, **64,** 679 (ab)
—— manifestations of tuberculosis in children; clinical aspects (A. M. Macpherson), 1951, **66,** 126 (ab)
—— manifestations of tuberculosis in children; pathological aspects (J. L. Emery), 1951, **66,** 126 (ab)
—— manifestations of tuberculosis in children; radiological aspects (T. Lodge), 1951, **66,** 125 (ab)
—— massive hyperplastic granulomatous silicosis (G. Lischi), 1950, **64,** 320 (ab)
—— mediastinal hernia; roentgen examination with reference to tomography (H. Salinger), 1948, **60,** 710 (ab)
—— metastases, extensive, in chorionepithelioma; spontaneous and complete regression (W. R. Johnson), 1952, **67,** 146 (ab)
—— metastases from adenocarcinoma of corpus uteri; androgen therapy (J. H. Freed, E. P. Pendergrass and J. W. Carnwath), 1951, **65,** *596
—— metastases from chordoma of base of skull (N. Uhr and J. Churg), 1950, **63,** 933 (ab)
—— metastases from chorionepithelioma; treatment by lobectomy (H. C. Maier and H. C. Taylor), 1948, **59,** 759 (ab)
—— metastases from papillary adenocarcinoma of thyroid treated with radioactive iodine (A. S. Freedberg, A. L. Ureles, M. F. Lesses and S. L. Cargill), 1951, **66,** 689 (ab)
—— metastases from pseudo-adenomatous basal cell carcinoma (I. Lampe and H. Zatzkin), 1950, **64,** 522 (ab)
—— metastases; roentgen diagnosis (L. G. Rigler), 1949, **61,** *751
—— metastases, solitary; surgical treatment (D. B. Effler and B. Blades), 1948, **60,** 709 (ab)
—— metastases; spontaneous disappearance after nephrectomy for hypernephroma (L. T. Mann), 1948, **60,** 569 (ab)
—— metastatic cancer, circulatory failure (O. Storstein), 1952, **68,** 999 (ab)
—— metastatic chorionepithelioma; lobectomy (H. C. Maier and H. C. Taylor), 1948, **59,** 759 (ab)
—— metastatic lesions; resections for (J. L. Ehrenhaft), 1952, **68,** 500 (ab)
—— metastatic sarcoma with associated pneumothorax; 2 cases (T. F. Leigh and E. A. Thompson), 1951, **66,** *900
—— microlithiasis alveolaris pulmonum (W. Lindig), 1952, **68,** 997 (ab)
—— middle lobe syndrome (F. R. Harper, W. B. Condon and W. H. Wierman), 1951, **66,** 490 (ab)
—— miliary calcification; etiology aspects (H. P. Doub), 1950, **63,** 128 (ab)
—— miliary lesions and increased titer of antistreptolysins and cold agglutinins in erythema multiforme exudativum and pneumonia (O. Selvaag), 1950, **63,** 940 (ab)
—— minimal tuberculosis lesions (D. Reisner and J. Downes), 1948, **59,** 442 (ab)
—— minute anatomy and physiology; behavior in health and disease (instruction course) (L. R. Sante), 1948, **60,** 131
—— miscellaneous lesions; cytology of sputum and bronchial secretions; studies on 588 patients (L. B. Woolner and J. R. McDonald), 1951, **66,** 838 (ab)
—— moniliasis (R. W. Oblath, D. H. Donath, H. G. Johnstone and W. J. Kerr), 1952, **67,** 854 (ab)
—— mortality and survival rates in males with silicosis or silico-tuberculosis (H. M. Turner and W. J. Martin), 1950, **64,** 320 (ab)

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—— mucor-mycosis (J. D. Murphy and S. Bornstein), 1951, **66,** 127 (ab)
—— multiple adenoleiomyomas (P. Eggimann and B. Woltz), 1950, **64,** 524 (ab)
—— multiple densities; contribution to differential diagnosis (H. G. Horst, H. Legler and V. Buchtala), 1949, **62,** 282 (ab)
—— muscle tumors primary in the lung; roentgen study (R. S. Sherman and B. H. Malone), 1951, **65,** 505 (ab)
—— mycoses (W. A. Hobby), 1950, **63,** 129 (ab)
—— mycoses, coccidioidomycosis and pulmonary cavitation; 92 cases (W. A. Winn), 1952, **67,** 515 (ab)
—— mycoses and systemic complications (instruction course) (R. J. Reeves), 1950, **64,** 138
—— neoplasms; mass surveys as case finding technics (K. R. Boucot), 1951, **66,** 844 (ab)
—— neoplasms; pathologist's approach (A. R. Moritz), 1951, **66,** 845 (ab)
—— neoplastic disease, symptomatic arthritis due to hypertrophic pulmonary osteoarthropathy in; 7 cases (H. H. Holmes, E. Bauman and C. Ragan), 1951, **65,** 995 (ab)
—— nodular densities due to scars of multiple pulmonary infarcts (C. E. Grayson), 1949, **62,** *208
—— nodules associated with mitral stenosis (S. H. Sahn and I. Levine), 1951, **65,** 155 (ab)
—— of normal infants; teleradiographic study (A. Jaubert de Beaujeu and M. Caruana), 1951, **65,** 288 (bk. rev.)
—— pantopaque embolism during myelography (H. L. Steinbach and W. B. Hill), 1952, **68,** 141 (ab)
—— paraffinoma (lipoid pneumonia); critical study (R. Berg, Jr. and T. H. Burford), 1951, **66,** 491 (ab)
—— parasitic infection (T. T. Mackie), 1949, **62,** 588 (ab)
—— parenchyma; does ioduron bronchography harm? (H. Zollinger), 1952, **67,** 145 (ab)
—— pathological condition in an inferior accessory lobe and its pleura (J. W. Grossman and C. F. Fishback), 1950, **63,** *47
—— patterns of lobar collapse as observed radiographically (M. Lubert and G. R. Krause), 1952, **67,** 144 (ab)
—— peripheral vascular disease (R. P. Barden and D. A. Cooper), 1949, **61,** *17
—— pneumonia, traumatic; roentgen manifestations (W. A. Evans, Jr.), 1948, **59,** *663
—— pneumonitis, chronic; 10 cases showing interstitial pneumonitis and unusual cholesterol deposits (W. R. Waddel, R. C. Sniffen and R. H. Sweet), 1950, **64,** 319 (ab)
—— pneumonitis, diffuse miliary granulomatous, of unknown etiology; roentgen aspects (B. Felson, G. F. Jones and R. P. Ulrich), 1950, **64,** *740
—— pneumonitis, nonspecific, of left upper lobe simulating middle lobe syndrome and producing early superior pulmonary sulcus syndrome (W. M. Ashe, J. R. McDonald and O. T. Clagett), 1951, **66,** 854 (ab)
—— postoperative pulmonary shadows (V. Knoll), 1951, **66,** 852 (ab)
—— primary Hodgkin's disease (K. Yardumian and L. Myers), 1951, **66,** 293 (ab)
—— pulmonary affections of occupational origin (R. T. Johnstone), 1950, **63,** 448 (ab)
—— pulmonary air meniscus (H. S. Weens and E. A. Thompson), 1951, **65,** 642 (ab)
—— pulmonary circulation; use of quimograph (L. de Carvalho), 1950, **64,** 684 (ab)

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—— pulmonary heart disease (W. A. Sodeman), 1948, **60,** 853 (ab)
—— pulmonary hypertension and coronary sclerosis (E. H. Drake), 1952, **68,** 498 (ab)
—— pulmonary hypertension; causes (C. A. Good and T. J. Dry), 1949, **61,** *27
—— pulmonary localization in Gaucher's disease; study (L. Grandmaison), 1951, **66,** 854 (ab)
—— pulmonary manifestation in uremic (M. Kabanchik and M. Kleimans), 1952, **68,** 142 (ab)
—— pulmonary zones (L. di Guglielmo), 1951, **65,** 815 (bk. rev.)
—— radiographic changes during recovery from drowning (J. J. Romagosa, L. J. Menville and J. T. Leckert), 1951, **66,** 489 (ab)
—— radiology; bioclinical diagnosis (G. Voluter), 1950, **63,** 749 (bk. rev.)
—— recurrent thrombophlebitis in obscure malignant tumor of lung; 4 cases (M. M. Fisher, L. A. Hockberg and N. D. Wilensky), 1952, **68,** 680 (ab)
—— resection for metastatic malignant lesions (H. H. Seiler, O. T. Clagett and J. R. McDonald), 1951, **65,** 644 (ab)
—— rheumatic pneumonia (D. W. Seldin, H. S. Kaplan and H. Bunting), 1949, **61,** 268 (ab)
—— roentgen findings in lesions of the lingula (T. F. Leigh and W. A. Hopkins), 1952, **68,** 144 (ab)
—— roentgen manifestations of eosinophilic granuloma of mandible and cranial vault (R. Gilbert and G. Voluter), 1948, **60,** 569 (ab)
—— roentgen manifestations of intrathoracic injury due to missiles (W. A. Evans, Jr.), 1948, **59,** *662
—— roentgen manifestations of Queensland fever (L. G. Glücker and J. Munk), 1952, **68,** 1004 (ab)
—— sarcoidosis (A. J. Ackerman), 1948, **59,** *318
—— sarcoidosis and chronic pulmonary granulomatosis of beryllium workers; differential diagnosis (A. G. Robert), 1950, **63,** *482
—— sarcoidosis; early roentgen findings (L. H. Garland), 1949, **61,** 268 (ab)
—— sarcoidosis, with roentgen appearances of metastatic neoplasm; 2 cases (M. C. McCord and H. L. Hyman), 1952, **67,** *259
—— sclerosis (O. Jervell), 1952, **67,** 138 (ab)
—— segmental collapse in therapeutic pneumothorax (A. Hurst and T. Millner), 1951, **66,** 291 (ab)
—— segments, and pneumonias of the segments (U. Cocchi), 1952, **68,** 995 (ab)
—— severe irradiation damage; pneumonectomy for (M. Bergman and E. A. Graham), 1952, **68,** 849 (ab)
—— solitary metastatic nodule and pericardial cysts; differential roentgen diagnosis (W. M. Loehr), 1952, **68,** *601
—— solitary necrosis; comparison of neoplastic and inflammatory conditions (R. Wigh and F. R. Gilmore), 1952, **68,** 142 (ab)
—— spontaneous hemopneumothorax; etiological considerations and case report (J. Solovay), 1950, **63,** 944 (ab)
—— stenosis (M. J. Carson and T. H. Burford), 1948, **60,** 707 (ab)
—— stenosis, congenital, and aortic pulmonary anastomosis (W. J. Potts and S. Gibson), 1949, **62,** 907 (ab)
—— stenosis, congenital; postoperative observations on 214 children (C. R. Leininger, S. Gibson and W. J. Potts), 1952, **67,** 513 (ab)
—— stenosis; diagnosis by angiocardiography (M. J. Carson, T. H. Burford, W. G. Scott and J. Goodfriend), 1949, **62,** 591 (ab)
—— stenosis, isolated (H. Gotzsche, P. Eskildsen and A. T. Hansen), 1952, **67,** 511 (ab)

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—— stenosis; similarity to chronic cor pulmonale; roentgen findings (M. O. Marks and H. A. Zimmerman), 1951, **66,** *21
—— studies of pulmonary findings and antigen sensitivity among student nurses (L. B. Edwards, I. Lewis and C. Palmer), 1949, **62,** 751 (ab)
—— studies on respiratory gas exchange in 100 anthracite coal miners with pulmonary complaints (H. L. Motley, L. P. Lang and B. Gordon), 1950, **64,** 1031 (ab)
—— subacute infection, brain abscess during (J. Le Beau and M. Rosier), 1950, **63,** 758 (ab)
—— surgery; function tests (G. Birath and C. Crafoord), 1952, **68,** 507 (ab)
—— surgery; postpneumonectomy sanguineous coagulum; use of streptokinase-streptodornase (C. T. Read and F. B. Berry), 1951, **66,** 491 (ab)
—— surgery; pneumonectomy; angiographic study of form and function of remaining lung (H. Neuhof and R. A. Nabatoff), 1949, **62,** 754 (ab)
—— surgery; pneumonectomy for severe irradiation damage of lung (M. Bergman and E. A. Graham), 1952, **68,** 849 (ab)
—— surgery; pneumonectomy in carcinosarcoma of lung (M. Bergmann, L. V. Ackerman and R. L. Kemler), 1952, **68,** 500 (ab)
—— surgery; pneumonectomy in children (M. Levitin and M. Zelman), 1950, **64,** 680 (ab)
—— surgery; pneumonectomy, progressive changes in pulmonary function after; influence of thoracoplasty, pneumothorax, oleothorax and plastic sponge plombage (E. A. Gaensler and J. W. Strieder), 1952, **67,** 859 (ab)
—— surgery; pneumonectomy, right total; experiences with surgical resection of human carina, tracheal wall and contralateral bronchial wall in (O. A. Abbott), 1951, **65,** 828 (ab)
—— surgery; pneumonectomy; roentgen diagnosis of bronchogenic cancer prior to (A. Leb), 1951, **65,** 974 (ab)
—— surgery; pneumonectomy, roentgenograms after (A. Linder), 1952, **67,** 859 (ab)
—— syndrome of cardiopulmonary schistosomiasis (cor pulmonale) (M. R. Kenawy), 1951, **65,** 647 (ab)
—— symptomless arteriovenous aneurysms or fistulas (D. J. Roberts and J. E. Hutchison), 1951, **66,** *743
—— syphilis, clinical diagnosis; criteria (B. F. Royce), 1951, **66,** 293 (ab)
—— threshold visibility of pulmonary shadows (R. R. Newell and R. Garneau), 1952, **67,** 342 (ab)
—— thromboendarteritis with multiple mycotic aneurysms of branches of pulmonary artery (C. L. Pirani, F. E. Ewart and A. L. Wilson), 1950, **63,** 441 (ab)
—— thrombosis; influence on lesser circulation (L. R. Sante), 1948, **61,** *11
—— tissue changes after bronchography with ioduron B (W. Vischer), 1951, **66,** 854 (ab)
—— tissue, decreasing the amount, effect on right ventricular pressures in animals (R. F. Carlson, B. C. Charbon, H. G. A. Charbon and W. E. Adams), 1952, **68,** 343 (ab)
—— tomograms, superimposing (L. Dubary), 1951, **65,** 510 (ab)
—— transient pulmonary manifestations in rheumatoid arthritis (J. Bloom and J. H. Rubin), 1951, **66,** 489 (ab)
—— triangular hilar shadows in roentgenograms of infants and children; significance (R. M. Harvey and R. S. Bromer), 1948, **59,** *845

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—— tuberculoma simulating bronchogenic cancer (I. Kross), 1951, **65,** 150 (ab)
—— tuberculomas; pathogenesis, diagnosis and management (G. J. Culver, J. P. Concannon and J. E. MacManus), 1951, **66,** 846 (ab)
—— tuberculosis; reasons for common anatomic location (W. Dock), 1949, **61,** 119 (ab)
—— tuberculous cavities; treatment by speleostomy (B. O'Brien), 1951, **66,** 843 (ab)
—— tuberculous foci, isolated apart from primary complex (focal extension) (K. Terplan), 1948, **59,** 445 (ab)
—— tumors, adenomatosis; 9 cases and review of literature (L. L. Swan), 1950, **63,** 946 (ab)
—— tumors, alveolar cell (C. A. Good, J. R. McDonald, O. T. Clagett and E. R. Griffith), 1950, **64,** *1
—— tumors, alveolar cell (E. R. Griffith, J. R. McDonald and O. T. Clagett), 1951, **66,** 844 (ab)
—— tumors, alveolar cell (M. W. Davis and T. R. Simon), 1951, **66,** 845 (ab)
—— tumors; angiocardiography (C. T. Dotter and I. Steinberg), 1952, **67,** 850 (ab)
—— tumors, apical and primary cancer (J. J. Stein), 1948, **60,** *58
—— tumors; biologic effects of long continued irradiation (E. Lorenz), 1950, **63,** *181
—— tumors; correlation of pathologic characteristics and clinical manifestations in unresectable and unexplored postmortem lung tumors (G. M. Bogardus, W. E. Adams and F. J. Phillips), 1951, **65,** 644 (ab)
—— tumors, diagnosis; alterations in thoracic cage (G. Cardella), 1949, **62,** 590 (ab)
—— tumors, diagnosis; angiocardiopneumography (M. Battezzati, F. Soave and A. Tagliaferro), 1951, **65,** 974 (ab)
—— tumors, in mice, carcinogenic action of the mustards (W. E. Heston), 1951, **66,** 1024 (ab)
—— tumors; pathologic and roentgenolic study of surgical lesions (scientific exhibit) (J. R. McDonald, L. B. Woolner, C. A. Good and A. H. Bulbulian), 1949, **62,** 736
—— tumors; pathologic clinical correlative study of full-size mounts from operated carcinomas (F. J. Phillips, C. E. Basinger and W. E. Adams), 1951, **65,** 644 (ab)
—— tumors, plasma cell; 2 cases (W. G. Childress and G. C. Adie), 1951, **65,** 645 (ab)
—— tumors, solitary; problem (D. B. Effler, B. Blades and E. Marks), 1950, **63,** 760 (ab)
—— use of ACTH and cortisone in treatment of postirradiation pulmonary reaction (S. W. Cosgriff and M. M. Kligerman), 1952, **68,** 541 (ab)
—— use of anticoagulant (dicumarol) in preventing postirradiation tissue changes in human lung (S. H. Macht and H. Perlberg, Jr.), 1950, **63,** *335
—— veins, aberrant insertion with interatrial septal defect and congenital arteriovenous aneurysm of lung (A. Grishman, M. H. Poppel, R. S. Simpson and M. L. Sussman), 1949, **62,** *500
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—— and **Parks, S. L.:** Simplified position for demonstrating cervical intervertebral foramina, 1950, **63,** *575
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Marsalek, J.: Hysterosalpingography with subsequent hydropertubation, 1951, **65,** 298 (ab)
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—— **Lifsay, J.,** and **Brahms, S.:** Gastroduodenal intussusception, 1951, **66,** *87
—— **Poole, C. S.,** and **Goldberger, M. A.:** Hysterography and hysterosalpingography; analysis of 2,500 cases with special emphasis on technique and safety of the procedure, 1951, **66,** 304 (ab)
—— and **others:** Ulcerative granulomatous ileojejunitis (scientific exhibit), 1951, **66,** 822
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—— from cartilaginous tumors; labeled inorganic sulfate in diagnosis (L. L. Layton), 1950, **64,** 186 (ab)
—— from cervico-uterine cancer; roentgen therapy (F. Baclesse), 1950, **63,** *252
—— from goitre; Hürthle cell tumor of thyroid and skull (R. C. Shaw), 1952, **67,** 850 (ab)
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—— from pineal tumors; (V. N. Tompkins, W. Haymaker and E. H. Campbell), 1950, **64,** 1025 (ab)
—— from primary cancer of female breast; castration and androgen hormonal therapy (V. Costa), 1952, **67,** 340 (ab)
—— from rectal cancer; heterotopic ossification in an area of (H. R. Senturia, S. E. Schechter and B. Hulbert), 1948, **60,** *507
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—— from renal neoplasms; secondary metastatic pulsations from a renal tumor (B. C. Nolle, Jr.), 1948, **59,** 592 (ab)
—— from thyroid to bone; roentgen appearance (R. S. Sherman and M. Ivker), 1950, **63,** *196
—— generalized, from sarcoma of uterus (T. Kardash), 1949, **62,** 615 (ab)
—— glandular, in tongue cancer; treatment (B. W. Windeyer), 1950, **63,** *722
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—— lymph nodes, cervical, from adrenal neuroblastoma (G. F. Dederick, Jr., S. D. Mills and E. S. Judd, Jr.), 1951, **66,** 506 (ab)
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—— lymph nodes; new bone formation associated with direct extension to bone in infiltrating carcinoma of bladder (J. M. Phillips), 1951, **66,** 139 (ab)
—— lymph nodes, pelvic, in cancer of cervix; effect of radiation (W. E. Brown, I. Meschan, E. Kerekes and J. M. Sadler), 1952, **68,** 533 (ab)
—— lymphangitic pulmonary, from chordoma of base of skull (N. Uhr and J. Churg), 1950, **63,** 933 (ab)
—— mammary carcinoma transplanted subcutaneously into foreign strains of mice; note on lack of progressive growth (R. T. Prehn), 1950, **64,** 901 (ab)
—— meningeal, from cancer of prostate; possible mechanism of production (A. de la Pena and A. Anselem), 1951, **65,** 495 (ab)
—— metastatic adenocarcinoma of thyroid with elevated basal metabolism; radioiodine studies (S. J. Weinberg, R. M. Fink, K. Fink and G. L. Packer), 1951, **66,** 162 (ab)
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—— metastatic lesions of cancer of female breast; clinical response to hormonal therapy as related to histologic grade of malignancy (E. Lowenhaupt and H. L. Steinbach), 1950, **63,** 290 (ab)
—— metastatic lesions, pulmonary resections for (J. L. Ehrenhaft), 1952, **68,** 500 (ab)

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—— metastatic malignancy and simulating lesions in bones in adult males (scientific exhibit) (C. Oderr and J. E. Martin), 1952, **68,** 824
—— metastatic malignant lesions, pulmonary resection for (H. H. Seiler, O. T. Clagett and J. R. McDonald), 1951, **65,** 644 (ab)
—— metastatic melanoma of brain; case with unusually long survival period following surgical removal (V. Reyes and G. Horrax), 1950, **64,** 1026 (ab)
—— metastatic sarcoma, spontaneous pneumothorax associated with (E. A. Lodmell and S. C. Capps), 1950, **63,** 441 (ab)
—— metastatic tumors of bone (S. L. Baker, F. C. Golding, A. L. Crooke and G. W. Blomfield), 1951, **65,** 313 (ab)
—— metastasizing cerebellar tumors; difficulty in distinguishing between medulloblastoma and neuroblastoma (R. P. Barden and F. H. Lewey), 1950, **64,** 517 (ab)
—— multiple, in thyroid cancer and pathological fracture successfully treated with radioiodine (J. Sorrentino, B. Roswit and R. Yalow), 1952, **68,** 853 (ab)
—— phalangeal, in bronchogenic cancer; 3 cases (G. M. Colson and A. Willcox), 1948, **60,** 855 (ab)
—— pleural, in breast cancer; spontaneous regression (B. A. Nohrman), 1950, **64,** 683 (ab)
—— pulmonary, from adenocarcinoma of corpus uteri; androgen therapy (J. H. Freed, E. P. Pendergrass and J. W. Carnwath), 1951, **65,** *596
—— pulmonary, from chorionepithelioma; lobectomy for (H. C. Maier and H. C. Taylor), 1948, **59,** 759 (ab)
—— pulmonary, from papillary adenocarcinoma of thyroid treated with radioactive iodine (A. S. Freedberg, A. L. Ureles, M. F. Lesses and S. L. Gargill), 1951, **66,** 689 (ab)
—— pulmonary, in chorionepithelioma; spontaneous and complete regression (W. R. Johnson), 1952, **67,** 146 (ab)
—— pulmonary, of pseudo-adenomatous basal cell carcinoma (I. Lampe and H. Zatzkin), 1950, **64,** 522 (ab)
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—— regional, in stomach cancer; validity of basing prognosis upon Borrmann typing (G. E. Moore, D. State, R. Hebbel and A. E. Treloar), 1949, **62,** 291 (ab)
—— seminoma of testicle with and without metastases irradiated following semicastration (W. Renner), 1952, **68,** 705 (ab)
—— simulating mammary cancer in prostatic cancer under estrogenic therapy (J. H. Campbell and S. D. Cummins), 1952, **67,** 707 (ab)
—— skeletal and intrathoracic from salivary gland cancer; roentgen study (D. Wilner), 1951, **66,** 675 (ab)
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—— centers of ossification as measure of maturation (D. H. Milman and H. Bakwin), 1951, **65,** 851 (ab)
—— fractures of tarsal and metatarsal bones (F. M. McKeever), 1951, **66,** 139 (ab)
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—— survey, Beckman MX-2, Rauland model Z-100 Zeus and Tracerlab SU-IB, exposed to various radiations; comparison (R. F. Cowing, E. De Amicis and C. K. Spalding), 1951, **66,** *961
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—— methacrylate (lucite) plombage in extrapleural pneumolysis; roentgen studies (H. D. Kerman), 1948, **60,** *51
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Meyer, J. H.: Pulmonary alveolar adenomatosis; report of case, 1950, **64,** 679 (ab)
Meyer, K. A., Rosi, P. A., and **Stein, I. F.:** Studies on vagotomy in treatment of peptic ulcer; clinical evaluation, 1949, **61,** 126 (ab)
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—— association of certain hematomas with myelencephalic blebs in the house mouse (A. B. Grobman), 1949, **61,** *98
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—— CaH; histological changes produced by single large injection of radioactive phosphorus (B. Grad and C. E. Stevens), 1951, **65,** 343 (ab)
—— cyanide protection against x-irradiation (Z. M. Bacq, A. Herve, J. Lecomte and P. Fischer), 1951, **65,** 679 (ab)
—— deposition of radiogallium (Ga72) in proliferating tissues (H. C. Dudley, G. W. Imirie, Jr. and J. T. Istock), 1951, **66,** 691 (ab)
—— destructive effect of virus of Russian Far East encephalitis and transplantable mouse sarcoma 180 (A. E. Moore), 1950, **63,** 964 (ab)
—— distribution of radioactive iodine in mice with and without tumor 15091a after injection with radioactive sodium iodide (C. D. Stevens, M. A. Meinken, P. M. Quinlin and P. H. Stewart), 1950, **64,** 905 (ab)
—— effect of radioactive phosphorus upon development of teeth and mandibular joint (M. S. Burstone), 1951, **66,** 162 (ab)
—— effect of roentgen therapy on mouse encephalitis (W. A. Tanner and J. E. McConchie), 1950, **63,** 963 (ab)
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—— effects of x-irradiation on erythrogenesis, plasma and cell volumes (J. Furth, G. A. Andrews, R. H. Storey and L. Wish), 1952, **67,** 344 (ab)
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—— further observations on inhibition of lymphoid tumor development by shielding and partial-body irradiation (H. S. Kaplan and M. B. Brown), 1952, **68,** 867 (ab)
—— further studies on radiosensitivity of tumors autogenous to homozygous hosts (A. Goldfeder), 1950, **63,** 298 (ab)
—— further studies on relation between radiation effects, cell viability, and induced resistance to malignant growth (A. Goldfeder), 1949, **61,** 881 (ab)
—— growth in tissue culture of analogous mouse mammary carcinomas and their response to radiation (A. Goldfeder and G. Cameron), 1950, **63,** 147 (ab)
—— histological effects of long-continued whole-body gamma irradiation (B. Spargo and others), 1952, **68,** 870 (ab)
—— influence of dose fractionation on lethal x-ray effect produced by total body irradiation (F. Ellinger and J. C. Barnett), 1950, **64,** 556 (ab)
—— intravenous radiocarbon distribution and dosage in tissues (Table I) (G. L. Nardi), 1952, **67,** *989
—— lack of progressive growth of metastatic mammary carcinoma transplanted subcutaneously into foreign strains (R. T. Prehn), 1950, **64,** 901 (ab)
—— lethal irradiation with high doses of roentgen and gamma rays (P. Bonet-Maury and F. Patti), 1952, **68,** 346 (ab)
—— leukemic and normal; over-all tracer studies with C-14 labeled nitrogen mustard (H. E. Skipper, L. L. Bennett, Jr. and W. H. Langham) 1952, **68,** 339 (ab)
—— localization of C14 in tissues after administration of C14 methyl-labeled glycine (G. L. Nardi), 1951, **65,** 674 (ab)
—— mammary adenocarcinomas, analogous; anomalous radiosensitivities (A. Goldfeder), 1950, **64,** 557 (ab)
—— protection against lethal dose of x-rays by cyanide, azide and malononitrile (Z. M. Bacq and A. Herve), 1952, **68,** 866 (ab)
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—— radiation induced mutations in mammals (D. R. Charles), 1951, **66,** 340 (ab)
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—— radon treated and roentgen irradiated; percentage mortality in (J. W. Hollcroft and E. Lorenz), 1952, **68,** 870 (ab)
—— reduction of mortality from x-radiation by treatment with antibiotics (C. P. Miller, C. W. Hammond and M. Tompkins), 1951, **66,** 155 (ab)
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—— roentgen irradiated; alteration of mortality by thiourea, thiouracil, folic acid, sodium maleate and oxygen tension (G. Limperos), 1952, **67,** *810
—— sarcoma 180 and viscera, effects of nitrogen mustards (B. H. Landing and F. F. Eisenberg), 1950, **64,** 366 (ab)

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—— tumor strain A, carcinogenic action of the mustards (W. E. Heston), 1951, **66,** 1024 (ab)
—— tumors; in vivo staining and retardation by acridine compounds (M. R. Lewis), 1949, **61,** 287 (ab)
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—— comparative accuracy of Chassard-Lapiné and recumbent positions in roentgen measurement of pelvic outlet (M. Van Herik and C. A. Good), 1951, **65,** 161 (ab)
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—— and **Mahoney, J. F.:** Consideration of roentgen therapy in producing temporary depilation for tinea capitis, 1949, **62,** 458 (ab)
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—— and **Phillips, J. M.:** Value of ventriculo-encephalography in planning roentgen therapy for brain tumors, 1951, **66,** *603
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—— Resolution of Georgia Radiological Society on the death of Dr. Robert B. Taft, 1951, **66,** 108
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—— and **Russell, D. S.:** Necrosis of brain due to radiation therapy; clinical and pathological observations, 1949, **62,** 902 (ab)
—— **Northfield, D. W. C., Parsons-Smith, G. P.,** and **Tutton, G. K.:** Discussion on current trends in management of gliomata, 1951, **65,** 497 (ab)
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—— military service connected disability in stomach diseases, especially gastric and duodenal ulcer (H. Kalk), 1952, **67,** 521 (ab)
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—— primary duodenal ulcer healing with later development of gastric ulcer (S. Morrison and M. Feldman), 1952, **68,** 513 (ab)
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—— nodosa; unusual ureterograms (R. S. Fisher and H. H. Howard), 1949, **62,** 453 (ab)
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—— chronic constrictive (chronic cardiac compression); critical study of 61 operated cases with follow-up (J. R. Chambliss and others), 1952, **68,** 1002 (ab)
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—— radioactive; treatment of polycythemia vera (B. K. Wiseman, R. J. Rohn, B. A. Bouroncle and W. G. Myers), 1952, **67,** 335 (ab)
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—— radioactive; use for diagnosis and therapy (scientific exhibit) (H. L. Jaffe), 1952, **68,** 826
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—— chest surveys; detection of unsuspected heart disease in (A. Selzer, M. B. Harrison and G. T. Daniloff), 1952, **68,** 510 (ab)
—— chest surveys in general hospitals; critical review (K. R. Boucet, D. A. Cooper, E. W. Marshall and F. M. Richardson), 1950, **64,** 317 (ab)
—— detection of gastric carcinoma (J. F. Roach, R. D. Sloan and R. H. Morgan), 1949, **61,** *183; 1952, **67,** *68; equipment design, 1949, **61,** *188
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—— films, 70 mm.; heart disease case findings (D. D. Rutstein, C. R. Williamson and F. E. Moore), 1952, **68,** 677 (ab)
—— for detection of unsuspected gastric neoplasms (scientific exhibit) (R. Wigh and P. C. Swenson), 1951, **66,** 822
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—— organization and results in Canton of Zürich (1946-1949) (H. R. Schinz and H. Eggenschwyler), 1952, **67,** 136 (ab)
—— protecting personnel from excessive radiation (W. W. Van Allen), 1951, **65,** 681 (ab)
—— rapid chest, method (H. S. Weens and A. A. Rayle, Jr.), 1952, **68,** *457
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—— infrared; study of superficial veins of thorax in relation to breast tumors (L. C. Massopust), 1948, **60,** 438 (ab)
—— medical, radiographic and clinical (T. A. Longmore), 1950, **63,** 751 (bk. rev.)
—— photographic emulsions used in micro-arteriography (A. E. Barclay), 1948, **60,** *1
—— photographic material (Adlux film) for gamma ray dosimetry (H. O. Whipple, C. S. Hornberger, J. G. Hoffman and J. F. Nolan), 1948, **60,** *175
—— preparation of photographic prints for medical publication (S. J. McComb), 1952, **67,** 493 (bk. rev.)
—— roentgen-ray calibration of photographic film exposure meter (L. J. Deal, J. H. Roberson and F. H. Day), 1948, **59,** *731
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—— photoroentgen apparatus in angiocardiography with a rapid film changer (H. L. Temple, I. Steinberg and C. T. Dotter), 1948, **60,** *646
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—— progress in biophysics and biophysical chemistry (J. A. V. Butler and J. T. Randall), 1952, **67,** 127 (bk. rev.)
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—— and **Roberts, S. M.:** Diagnosis of primary Hodgkin's disease of stomach, 1950, **63,** 456 (ab)
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—— **Parker, J. E., Jr.,** and **Shook, F. W.:** Color as a teaching aid for diagnostic roentgenology, 1952, **68,** 169 (ab)
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—— and **others:** Roentgen demonstration of deposition of colloidal thorium dioxide (thorotrast) in gallbladder wall with report of a case, 1951, **66,** *208
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—— growth hormone; neoplasms in rats treated with; pulmonary and lymphatic tissues (H. D. Moon, C. H. Li and H. M. Evans), 1951, **65,** 342 (ab)
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—— cancer; spontaneous regression in breast cancer; case (B. A. Nohrman), 1950, **64,** 683 (ab)
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—— nonspecific pneumonitis of left upper lobe (simulating middle lobe syndrome and producing early superior pulmonary sulcus syndrome); case (W. M. Ashe, J. R. McDonald and O. T. Clagett), 1951, **66,** 854 (ab)
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Press, P.: Comparative study of results of examinations of population at large with results of examinations of tuberculosis contact cases in detection of pulmonary tuberculosis, 1950, **64,** 520 (ab)
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—— suprapubic prostatectomy, heterotopic bone formation after (B. S. Abeshouse), 1948, **60,** 584 (ab)
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Pugh, D. G.: Diagnosis of malacic diseases of bone (refresher course), 1950, **64,** 137; 1952, **68,** 130
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—— in small kidneys; roentgen considerations (E. P. Pendergrass, R. H. Chamberlain and F. P. Brooks), 1948, **59,** *651

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—— ionizing; review of evidence for production of free radicals in water consequent on absorption of (F. S. Dainton), 1952, **68,** 346 (ab)
—— ionizing; scintillation counter for diagnosis and localization of intracranial neoplasms (M. Ter-Pogossian, W. B. Ittner, III, W. B. Seaman and H. G. Schwartz), 1952, **67,** *351
—— ionizing; some aspects of atomic medicine (J. M. Holford), 1951, **66,** 1020 (ab)
—— ionizing; tolerance dose and prevention of injuries caused by (R. M. Sievert), 1949, **61,** 289 (ab)
—— irradiated human plasma and phagocytosis (J. N. Sarian), 1951, **65,** *940
—— irradiated nerve, sectioned end; search for vagus substance liberated from (E. Bocchi), 1950, **63,** 298 (ab)

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—— irradiation reactions in bladder; their occurrence and chemical course following use of x-ray and radium in treatment of female pelvic disease (E. M. Watson, C. C. Herger and H. R. Sauer), 1948, **60,** 291 (ab)
—— isotope, internal; late sequelae (T. Leucutia), 1948, **60,** 679 (E)
—— lethal, of mice with high doses of roentgen and gamma rays (P. Bonet-Maury and F. Patti), 1952, **68,** 346 (ab)
—— long continued; some biologic effects (E. Lorenz), 1950, **63,** *176
—— malignant degeneration of benign giant tumor following irradiation with ordinary doses (T. Leucutia and J. C. Cook), 1949, **62,** *688
—— medical aspects of the effects of atomic explosions (J. N. B. Crawford), 1951, **65,** 680 (ab)
—— medical problems in radiological defense (F. R. Philbrook), 1952, **68,** 864 (ab)
—— meter for disaster use (C. C. Lauritsen and T. Lauritsen), 1951, **66,** 336 (ab)
—— million volt; delayed effects on normal tissues and testicular tumors (scientific exhibit) (A. O. Hampton and others), 1951, **66,** 823
—— mixed; tentative dose units for (H. M. Parker), 1950, **64,** 906 (ab)
—— multicentric mammary cancer developing in previously irradiated breast (J. R. Lisa, G. T. Pack and J. D. Gioia), 1952, **68,** *452
—— mutagenic effects on Sciara (Diptera) (H. V. Crouse), 1950, **64,** 371 (ab)
—— myelitis of brain-stem (G. Boden), 1951, **66,** 156 (ab)
—— myelitis of cervical spinal cord (G. Boden), 1949, **62,** 917 (ab)
—— myelitis, extensive, of pelvic viscera in the female, partial or complete pelvic exenteration (A. Brunschwig), 1952, **68,** 534 (ab)
—— necrosis of jaw (E. M. Daland), 1950, **63,** 285 (ab)
—— necrosis; symposium (A. H. McIndoe, R. Forbes and B. W. Windeyer), 1949, **61,** 282 (ab)
—— neutron, measurement (R. S. Stone), 1948, **59,** *772
—— neutron, whole body; injurious effects in animals (T. Leucutia), 1948, **59,** 133 (E)
—— nuclear, and isotopic tracers, with applications to biology and medicine (W. E. Siri), 1950, **63,** 428 (bk. rev.)
—— ocular lesions after atomic bombing of Hiroshima and Nagasaki (J. J. Flick), 1948, **60,** 698 (ab)
—— of blood in vitro; attempts to influence leukemias (I. Rode), 1951, **66,** 333 (ab)
—— of bone lesions in presence of metallic intramedullary fixation (L. F. Peltier and C. M. Nice, Jr.), 1952, **67,** 345 (ab)
—— of experimental cerebral tumors (K. Tansley and C. W. Wilson), 1949, **61,** 585 (ab)
—— of human skin with fast electrons, time factor (R. K. Kepp, K. Müller and H. Reich), 1952, **67,** 328 (ab)
—— of inflammation (R. Glauner), 1952, **68,** 304 (bk. rev.)
—— of long wave length in microarteriography (A. E. Barclay), 1948, **60,** *3
—— of normal human hypophysis in malignancy; 3 cases receiving 8,100-10,000 r tissue dose to pituitary gland (K. H. Kelly and others), 1952, **67,** 691 (ab)
—— of pituitary in treatment of malignant exophthalmos (W. H. Beierwaltes), 1952, **67,** 690 (ab)
—— osteitis of ribs; case with fractures appearing 4½ and 11 years after therapy (E. A. Pohle and R. C. Frank), 1950 **63,** 786 (ab)

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—— other biological effects and their relation to genetic damage (H. J. Muller), 1951, **66,** 169 (ab)
—— parasitic, from target of x-ray tube; study of quality and origin (L. Mallet and R. A. Maurin), 1949, **61,** 689 (ab)
—— pelvic, fractures of femoral neck after; 10 cases (W. D. C. McCrorie), 1951, **66,** 1008 (ab)
—— penetrating; colorimetric dosimeter for qualitative measurement (G. V. Taplin and C. H. Douglas), 1952, **67,** 709 (ab)
—— pharmacological reactions of sera and drugs irradiated with roentgen rays of varying wavelength (D. I. Macht and M. Ostro), 1949, **61,** *534
—— physicists, certification; American Board of Radiology (B. R. Kirklin), 1949, **61,** 116
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—— physics and radiocurability of cancer (M. Lenz), 1952, **62,** *436
—— pile; biologic effects (P. S. Henshaw, E. F. Riley and G. E. Stapleton), 1949, **61,** 879 (ab)
—— post-irradiation gastritis, gastroscopic picture (E. D. Palmer), 1948, **60,** *360
—— post-irradiation neuropathy (M. M. Greenfield and F. M. Stark), 1948, **60,** *617
—— post-irradiation osteogenic sarcoma of nasal bone (J. J. Wolfe, and W. R. Platt), 1950, **63,** 953 (ab)
—— post-irradiation pulmonary reaction; use of ACTH and cortisone (S. W. Cosgriff and M. M. Kligerman), 1952, **68,** 541 (ab)
—— post-irradiation syndrome; pathogenesis and treatment (J. G. Allen, P. V. Moulder and D. M. Enerson), 1952, **67,** 324 (ab)
—— post-irradiation ulcerations of uterine cervix (H. W. Jacox), 1948, **60,** *795
—— postoperative; histological changes in skin wounds in rats; very small and moderate doses (E. A. Pohle, G. Ritchie and W. W. Moir), 1950, **63,** 623 (ab)
—— proctitis; diagnosis and treatment (O. T. Evans), 1951, **66,** 325 (ab)
—— protection of mice by thiourea (G. Limperos and W. A. Mosher), 1951, **65,** 683 (ab)
—— protracted fractionated, of laryngeal cancer; reactions of connective tissues after (F. Windholz), 1949, **61,** 582 (ab)
—— psychological factors in atomic warfare (J. P. Cooney), 1950, **63,** 959 (ab)
—— radiant energy injuries (T. Leucutia), 1948, **59,** 890 (E)
—— reaction, late, in small intestine 8 years after therapy (R. C. Frank and E. A. Pohle), 1951, **66,** 1014 (ab)
—— reduction of undesirable by-effects in products treated by radiation (A. Brasch and W. Huber), 1949, **62,** 775 (ab)
—— relation between radiation effects, cell viability and induced resistance to malignant growth; further studies (A. Goldfeder), 1949, **61,** 881 (ab)
—— relative biological efficiency; Internal Commission on Radiological Protection, 1951, **65,** *614
—— response in carcinoma of uterine cervix; correlation of histologic grade and clinical stage (R. W. Kistner and A. T. Hertig), 1952, **67,** 696 (ab)
—— roentgen, acute whole body, comparison in normal and hypothyroid mice (T. Haley, S. Mann and A. Dowdy), 1951, **66,** 338 (ab)
—— roentgen and radium; indications (R. Glauner), 1950, **63,** 269 (bk. rev.)

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—— roentgen, combined with clinical therapy (H. R. Renfer), 1950, **64,** 353 (ab)
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—— roentgen; effect on bisoynthesis of nucleic acids and nucleic acid purines (H. E. Skipper and J. H. Mitchell, Jr.), 1952, **67,** 710 (ab)
—— roentgen; effect on thyroid function in rats (J. B. Hursh, P. A. Van Valkenburg and J. B. Mohney), 1952, **68,** 347 (ab)
—— roentgen; extreme retardation of epiphyseal growth (C. H. Frantz), 1951, **66,** 685 (ab)
—— roentgen, fractionated external; histologic changes in squamous cell carcinoma of mouth and oropharynx produced by (J. W. Hall and M. Friedman), 1949, **62,** 611 (ab)
—— roentgen; inhibition of ribo- and thymonucleic acid synthesis in tumor tissue (B. E. Holmes), 1949, **61,** 885 (ab)
—— roentgen; lawful behavior of flocculation count in man (M. Takata), 1951, **66,** 1027 (ab)
—— roentgen, lymphopenia of (C. H. G. Price), 1950, **63,** 613 (ab)
—— roentgen, mid-lethal; influence of infection on hematological effects and mortality (in dogs) (L. R. Bennett, P. E. Rekers and J. W. Howland), 1952, **68,** 340 (ab)
—— roentgen, of desoxyribosenucleic acid; mechanism of action of irradiation in aqueous solution; physicochemical properties from desoxyribose-nucleic acid irradiated rats (G. Limperos and W. A. Mosher), 1950, **63,** *681; *691
—— roentgen, of hypophysectomized rat (H. M. Patt, M. N. Swift, E. B. Tyree and R. L. Straube), 1949, **62,** 775 (ab)
—— roentgen, of inoperable cancer by non-alternate chessboard of sieve method; comparative results with other methods (scientific exhibit) (H. Marks), 1952, **68,** 826
—— roentgen, peroral; use of precision cones (S. G. Castigliano and D. M. Sklaroff), 1950, **64,** *968
—— roentgen, physical aspects, from beryllium window tube operated over range 2-50 K.V.P. for clinical purposes (W. A. Jennings), 1951, **65,** 684 (ab)
—— roentgen; reduction of mortality by treatment with antibiotics (C. P. Miller, C. W. Hammond and M. Tompkins), 1951, **66,** 155 (ab)
—— roentgen, stray; unexpected sources (T. Leucutia), 1952, **67,** 647 (E)
—— roentgen, total body; effect of flavonoids (vitamin P) on mortality from (W. G. Clark, R. P. Uncapher and M. L. Jordan), 1950, **63,** 147 (ab)
—— roentgen, total, in Triton; time factor in lethal effects (V. V. Brunst and E. A. Sheremetieva-Brunst), 1949, **62,** *550
—— role of tumor bed in treatment of squamous-cell cancers (A. Glucksmann), 1951, **65,** 667 (ab)
—— rotation, of cancer of esophagus; statistical results (L. Mallet and R. Decker), 1952, **67,** 693 (ab)
—— sarcoma in irradiated mandible; case (S. Kaae and M. Glahn), 1950, **63,** 954 (ab)
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—— secondary, limits in photofluorography (W. W. Van Allen), 1952, **68,** 344 (ab)
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—— sickness, acute, in mice; effect of atropine (J. C. Larkin), 1949, **62,** *547
—— sickness; clinical study; evaluation of etiological factors influencing incidence and severity (F. Ellinger, B. Roswit and J. Sorrentino), 1952, **68,** *275
—— sickness; effects of radiation therapy on urinary excretion of niacin and riboflavin in patients with malignant diseases; relationship (J. L. Jarvis and D. Cayer), 1950, **63,** 611 (ab)
—— sickness; excretion of 17-ketosteroids during therapeutic roentgen irradiation (W. Schlungbaum), 1952, **68,** 535 (ab)
—— sickness, incidence or severity, influence of age (F. Ellinger, B. Roswit and J. Sorrentino), 1952, **68,** *277
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—— sickness, severity; influence of daily surface intensity factor (F. Ellinger, B. Roswit and J. Sorrentino), 1952, **68,** *278
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—— sickness; treatment by pyridoxine; further survey (L. M. Shorvan), 1950, **63,** 611 (ab)
—— sickness; treatment, thomapyrin (H. Drescher), 1952, **68,** 850 (ab)
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—— sickness; treatment with adrenal cortical hormone; 50 cases (F. Ellinger, B. Roswit and S. M. Glasser), 1949, **61,** *387
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—— sickness; treatment with dramamine (J. W. Beeler, J. W. Beeler, J. H. Tillisch and W. C. Popp), 1950, **64,** 181 (ab)
—— sickness; treatment with dramamine (E. DeFeo, P. H. Reitman and M. H. Nathan), 1952, **67,** 178 (ab)
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—— simultaneous cross-radiation (M. A. Loebell), 1949, **61,** 580 (ab)
—— skin erythema from (M. Tod), 1951, **66,** 334 (ab)
—— some harmful effects and their avoidance (instruction course) (W. E. Chamberlain), 1949, **62,** 139
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—— supervoltage, rotational scanning, of breast malignancies (H. F. Hare, J. G. Trump and E. W. Webster), 1952, **68,** *435
—— syndrome (E. E. Painter and A. M. Brues), 1950, **63,** 948 (ab)
—— therapist, training; some thoughts (H. D. Kerr), 1951, **66,** *873
—— 30-day LD-50 of two radiations on different ion density (J. W. Hollcroft and E. Lorenz), 1952, **68,** 870 (ab)
—— tissue damage, probable role of chromosome changes in causation (H. J. Muller), 1951, **66,** 168 (ab)
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—— total body, cataract formation after (T. Leucutia), 1952, **67,** 998 (E)
—— total body, damage; effect of antisplenic tissue serum (N. Molomut, M. Friedman, I. J. Ryby and A. Haber), 1951, **66,** *245
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—— total body; effect of transplantation of bone marrow into irradiated animals (dogs) (P. E. Rekers, M. P. Coulter and S. L. Warren), 1951, **65,** 343 (ab)
—— total body; experimental procedures for simultaneous exposure of large numbers of animals to (W. H. Chapman, E. P. Cronkite, F. W. Chambers, Jr. and J. E. Morgan), 1952, **68,** 170 (ab)
—— total body, in mice; influence of dose fractionation on lethal x-ray effect produced by (F. Ellinger and J. C. Barnett), 1950, **64,** 556 (ab)
—— total body; incidence of bacteremia in mice after (C. P. Miller, C. W. Hammond and M. Tompkins), 1951, **65,** 343 (ab)
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—— tubercle-like structures in late irradiation injuries of skin (L. G. Larsson), 1950, **63,** 142 (ab)
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—— use of anticoagulant (dicumarol) in preventing post-irradiation tissue changes in human lung; preliminary report (S. H. Macht and H. Perlberg, Jr.), 1950, **63,** *335
—— use of cobalt 60 for interstitial, intracavitary and plaque methods (instruction course) (I. Meschan), 1952, **68,** 127
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—— various methods as adjuncts to surgery in cancer of corpus uteri; comparative study (T. Leucutia), 1952, **68,** *770
—— various; photographic effect on special dental packets (R. F. Cowing and C. K. Spalding), 1950, **63,** 465 (ab)
—— vitamin P protection (B. Sokoloff, J. B. Redd and R. Dutcher), 1951, **65,** 683 (ab)
—— x and gamma, over wide energy range (L. S. Taylor), 1952, **67,** 345 (ab)

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—— and surgical treatment, combined, of technically inoperable cancer (G. T. Pack and T. R. Miller), 1952, **68,** 530 (ab)
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—— care of cancer of mouth and lip including cervical metastases (instruction course) (C. L. Martin), 1948, **60,** 126 (ab)

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—— effects on urinary excretion of niacin and riboflavin in patients with malignant diseases; relationship to radiation sickness (J. L. Jarvis and D. Cayer), 1950, **63,** 611 (ab)
—— for nonmalignant uterine bleeding at University of Virginia Hospital; evaluation (W. N. Thornton, Jr., J. M. Nokes and D. J. Brown, Jr.), 1951, **66,** 1018 (ab)
—— general; phototherapy, roentgen rays, radium (O. Jüngling), 1951, **65,** 290 bk. rev.)
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—— low-dosage, of ovarian dysfunction in young women (D. G. Drips), 1948, **60,** 860 (ab)
—— necrosis of brain due to; clinical and pathological observations (J. Pennybacker and D. S. Russell), 1949, **62,** 902 (ab)
—— new radiolaryngometric method (C. E. Garciga), 1952, **68,** 868 (ab)
—— of advanced cancer through a grid (scientific exhibit) (H. Marks), 1951, **66,** 823
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—— of bronchogenic cancer (instruction course) (B. P. Widmann), 1949, **62,** 142
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—— of cancer of cervix uteri; end results (H. E. Schmitz), 1951, **65,** *715

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—— carbon; localization in tissues of mice after administration of C 14 methyl-labeled glycine (G. L. Nardi), 1951, **65,** 674 (ab)
—— carbon; program for supplying isotope-labeled compounds, 1948, **59,** 743
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—— carbon; studies on hazard involved in use (H. E. Skipper, M. J. Bell and J. B. Chapman), 1951, **65,** 683 (ab)
—— chromium; determination of circulating red cell volume by (S. J. Gray and K. Sterling), 1951, **66,** 163 (ab)
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—— gallium; evaluation as adjunct to surgical diagnosis and therapy (M. M. Copeland), 1952, **68,** 707 (ab)
—— gallium; use in medicine (F. R. Lang), 1952, **68,** 859 (ab)
—— gold; distribution in rats, mice and transplanted mouse tumors (G. Z. Williams, A. C. Stanton, R. M. Jamison and J. T. Williams), 1951, **66,** 696 (ab)
—— gold, handling for therapeutic purposes (scientific exhibit) (M. M. Ter-Pogossian, A. I. Sherman, W. Allen and W. B. Seaman), 1952, **68,** 827
—— gold; localization; preliminary report (H. F. Berg), 1952, **68,** 540 (ab)
—— gold treatment of acute AK4 leukemia in mice (P. F. Hahn, H. E. Skipper, E. L. Carothers and L. J. Bernard), 1952, **67,** 705 (ab)
—— gold treatment of malignancies (P. F. Hahn and E. L. Carothers), 1950, **64,** 720 (ab)
—— gold treatment of pelvic cancer; experimental application (A. I. Sherman, J. F. Nolan and W. M. Allen), 1950, **64,** *75
—— gold treatment of pelvic cancer (A. I. Sherman, M. Bonebrake and W. M. Allen), 1951, **66,** *624
—— gold treatment of pleural carcinomatosis (E. Ploygers), 1951, **66,** 332 (ab)
—— gold treatment of prostatic and ovarian malignancies (instruction course) (H. D. Kerr and H. B. Elkins), 1952, **68,** 127
—— gold; use in pleural effusions and ascites associated with malignancy (E. R. King and others), 1952, **68,** *413
—— hydrogen in experimental atherosclerosis (M. W. Biggs and D. Kritchevsky), 1952, **67,** 702 (ab)
—— iodide; accumulation by thyroid gland in normal and thyrotoxic subjects and effect of thiocyanate on its discharge (M. M. Stanley and E. B. Astwood), 1949, **61,** 881 (ab)
—— iodine and scintillation counter in clinical studies of human thyroid physiology (H. C. Allen, Jr., R. L. Libby and B. Cassen), 1952, **67,** 698 (ab)
—— iodine and serum protein-bound iodine conversion ratio in various thyroid states (G. E. Sheline, M. C. Moore, A. Kappas and D. E. Clark), 1951, **66,** 1022 (ab)
—— iodine; applications to clinical diagnoses (C. P. Haigh and M. Reiss), 1951, **66,** 327 (ab)
—— iodine as adjunct to surgical management of diseases of the thyroid (B. M. Dobyns), 1952, **68,** 536 (ab)
—— iodine autographs (I. Doniach and S. R. Pelc), 1951, **65,** 671 (ab)
—— iodine; background for biological studies (W. T. Salter), 1950, **63,** 961 (ab)
—— iodine, calibrated solution standards, availability, 1950, **63,** 747
—— iodine, clinical applications (instruction course) (J. G. Hamilton), 1948, **60,** 122 (ab)
—— iodine; clinical use (E. R. Miller, M. H. Soley and M. E. Dailey), 1948, **60,** *45
—— iodine; clinical use (R. Fraser, H. Miller and M. Reiss), 1951, **65,** 672 (ab)
—— iodine; concentration in thyroid cancer shown by radioautography (P. J. Fitzgerald, F. W. Foote, Jr. and R. F. Hill), 1950, **64,** 363 (ab)
—— iodine concentration test in study of thyroid disease; evaluation (N. G. Schneeberg and others), 1952, **67,** 704 (ab)

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—— iodine; diagnosis and therapy (scientific exhibit) (H. L. Jaffe), 1952, **68,** 826
—— iodine diagnosis of hyper- and hypothyroidism W. F. Perry and J. P. Gemmell), 1951, **65,** 676 (ab)
—— iodine; diagnosis and treatment of thyroid disorders (S. C. Werner, E. H. Quimby and C. Schmidt), 1950, **63,** 294 (ab)
—— iodine; diagnosis of lingual thyroid (J. R. Timmons and J. M. Timmons), 1951, **66,** 1021 (ab)
—— iodine; diagnosis of thyrotoxicosis (A. G. Macgregor), 1951, **66,** 329 (ab)
—— iodine; diagnostic aid for intrathoracic goitre (M. B. Ansell and J. Rotblat), 1950, **63,** 961 (ab)
—— iodine; diagnostic and therapeutic use (D. E. Clark, O. H. Trippel and G. E. Sheline), 1951, **66,** 1021 (ab)
—— iodine; diagnostic use (instruction course) (K. E. Corrigan), 1951, **66,** 269
—— iodine; direct measurement of uptake in thyroid gland (A. S. Freedberg, D. L. Chamovitz, A. L. Ureles and M. A. Van Dilla), 1951, **66,** 331 (ab)
—— iodine; disposal in hospital (E. H. Quimby and C. B. Braestrup), 1950, **63,** *11
—— iodine distribution in mice with and without tumor 15091a after injection of radioactive sodium iodide (C. D. Stevens, M. A. Meinken, P. M. Quinlin and P. H. Stewart), 1950, **64,** 905 (ab)
—— iodine distribution in tissue obtained at necropsy or at surgical operation in man (G. S. Kurland, A. S. Stone and M. J. McManus), 1952, **68,** 337 (ab)
—— iodine; distribution of organisms containing I 131 in animal body; studies on metabolism of radiosotopes by various fungi and bacteria (I. A. Pearson, J. M. Hammer, K. E. Corrigan and H. S. Hayden), 1949, **61,** *839
—— iodine; divided doses in treatment of tumors of thyroid (G. Crile, Jr.), 1951, **65,** *415
—— iodine; effect of radiation and x-radiation on total coproporphyrin excretion in humans (H. J. Koch, Jr. and others), 1951, **66,** 519 (ab)
—— iodine; evaluation as adjunct to surgical diagnosis and therapy (M. M. Copeland), 1952, **68,** 706 (ab)
—— iodine; evaluation in treatment of hyperthyroidism (G. Crile, Jr. and E. P. McCullagh), 1952, **67,** 704 (ab)
—— iodine; formation of monoiodotyrosine from radioiodine in thyroid of rat and man (K. Fink and R. M. Fink), 1949, **62,** 774 (ab)
—— iodine; function and rate of uptake of thyroid (E. R. Miller and others), 1952, **68,** 166 (ab)
—— iodine; functional and structural changes consequent to high dosages (in thyroid) (A. Gorbman), 1951, **66,** 692 (ab)
—— iodine; histologic localization of absorbed radioactive iodine in some human thyroid diseases (F. L. Kreutzer, E. R. Miller, M. H. Soley and S. Lindsay), 1951, **65,** 674 (ab)
—— iodine; hypothyroidism produced by radioactive iodine in treatment of euthyroid patients with angina pectoris and congestive heart failure; early results in various types of cardiovascular diseases and associated pathologic states (H. L. Blumgart, A. S. Freedberg and G. S. Kurland), 1951, **65,** 673 (ab)
—— iodine in diagnosis and treatment of hyperthyroidism (R. A. Shipley, J. P. Storaasli, H. L. Friedell and A. M. Potts), 1950, **64,** *576
—— iodine in diagnosis and treatment of toxic goiter (S. C. Werner, L. D. Goodwin, E. H. Quimby and C. Schmidt), 1950, **63,** *889

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—— iodine in determination of abnormal thyroid morphology (W. E. Goodwin, F. K. Bauer, T. F. Barrett and B. Cassen), 1952, **68,** *963
—— iodine in diagnosis of lingual thyroid (H. M. Nachman, V. Crawford and I. A. Bigger), 1950, **64,** 186 (ab)
—— iodine in multiple melanomata (R. Marcus and J. Rotblat), 1951, **66,** 328 (ab)
—— iodine in tetraiodophenolphthalein for direct irradiation of cancer of liver and biliary tract (G. H. Copher and others), 1952, **67,** *964
—— iodine in therapy and diagnosis (E. C. Dougherty and J. H. Lawrence), 1949, **61,** 880 (ab)
—— iodine in thyroid gland; external measurement (T. H. Oddie and R. K. Scott), 1950, **64,** 186 (ab)
—— iodine, inorganic, conversion to protein-bound iodine as diagnostic aid in thyroid dysfunction (W. N. Harsha), 1952, **68,** 857 (ab)
—— iodine investigation of thyroid function and disease (E. E. Pochin), 1951, **68,** 675 (ab)
—— iodine, measurement of tumors containing (R. F. Hill, G. J. Hine and L. D. Marinelli), 1950, **63,** *166
—— iodine; measurements made with counter tube in apposition to thyroid isthmus (W. H. Beierwaltes, I. Lampe, H. J. Gomberg and G. H. Lowery), 1950, **64,** 362 (ab)
—— iodine; metabolism in patients with cardiac disease (F. R. Birkhill, K. E. Corrigan and H. S. Hayden), 1952, **67,** *42
—— iodine; partial destruction of rat thyroid by large doses (D. Findlay and C. P. Leblond), 1948, **59,** *387; correction, 1949, **61,** 731
—— iodine; pathological effects and radioautographic localization in humans; postmortem study in 9 cases (J. T. Godwin and others), 1952, **68,** 338 (ab)
—— iodine; percent radiation measured by survey instruments (R. F. Cowing, E. DeAmicis and C. K. Spalding), 1951, **66,** *964
—— iodine; production of experimental cretinism in dogs (C. A. Smith and others), 1952, **68,** 857 (ab)
—— iodine; standardization (S. Feitelberg), 1950, **63,** 960 (ab)
—— iodine; standards solutions; National Bureau of Standards, 1952, **67,** 123
—— iodine studies in congenital thyroid aplasia; differentiation between mongoloid and cretinoid child at birth (J. E. Kearns and W. F. Hutson), 1952, **68,** 338 (ab)
—— iodine studies in metastatic adenocarcinoma of thyroid with elevated basal metabolism (S. J. Weinberg, R. M. Fink, K. Fink and G. L. Packer), 1951, **66,** 162 (ab)
—— iodine studies in thyroiditis (W. M. McConahey and F. R. Keating), 1952, **68,** 539 (ab)
—— iodine studies of functional thyroid carcinoma (V. K. Frantz, E. H. Quimby and T. C. Evans), 1950, **63,** 296 (ab)
—— iodine studies on response of thyroid gland in normal human subjects to administration of thyrotropin (M. M. Stanley and E. B. Astwood), 1950, **63,** 294 (ab)
—— iodine study of thyroid of thyroid physiology (S. Hertz and A. Roberts), 1948, **59,** 153 (ab)
—— iodine tagged human albumin; clinical and experimental studies of intra-cranial tumors (G. E. Moore and others), 1951, **66,** *1
—— iodine test for thyroid function (H. L. Jaffe and R. E. Ottoman), 1951, **65,** 673 (ab)

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—— iodine; thyroid clearance rate of plasma iodine as measure of thyroid activity (N. B. Myant and E. E. Pochin), 1951, **66,** 671 (ab)
—— iodine; topographic study of thyroid by means of external measurement (M. Tubiana and P. Sue), 1952, **67,** 703 (ab)
—— iodine tracer dose in diagnosis of thyroid disease (L. Seed, B. Jaffe and C. Baumeister), 1952, **68,** 538 (ab)
—— iodine tracer studies after total thyroidectomy D. E. Szilagyi and others), 1952, **68,** 536 (ab)
—— iodine tracer studies in thiocyanate myxedema (C. M. Blackburn, F. R. Keating, Jr. and S. F. Haines), 1952, **68,** 858 (ab)
—— iodine tracer technic as clinical procedure in diagnosis of thyroid disorders (S. C. Werner, H. B. Hamilton, E. Leifer and L. D. Goodwin), 1951, **66,** 520 (ab)
—— iodine treatment in thyroid disease (instruction course) (H. B. Hunt), 1951, **66,** 267
—— iodine treatment of cancer of thyroid and its metastases (J. Chester, P. Lerch and A. Vannotti), 1951, **66,** 693 (ab)
—— iodine treatment of cancer of thyroid; limitations and indications (R. W. Rawson, J. E. Hall and W. Peacock), 1952, **68,** 538 (ab)
—— iodine treatment of diseases of thyroid gland (U. V. Portmann, R. A. Hays, E. P. McCullagh and C. E. Richards), 1951, **66,** *179
—— iodine treatment of euthyroid cardiac patients with intractable angina pectoris and congestive failure (A. S. Freedberg, H. L. Blumgart, G. S. Kurland and D. L. Chamovitz), 1951, **66,** 694 (ab)
—— iodine treatment of functional thyroid carcinoma (L. D. Marinelli and R. F. Hill), 1951, **66,** 688 (ab)
—— iodine treatment of hyperthyroidism (E. M. Chapman and R. D. Evans), 1948, **59,** 153 (ab)
—— iodine treatment of hyperthyroidism (E. M. Chapman, B. N. Skanse and R. D. Evans), 1950, **63,** 295 (ab)
—— iodine treatment of hyperthyroidism (S. Feitelberg and others), 1951, **65,** 335 (ab)
—— iodine treatment of hyperthyroidism (E. P. McCullagh and C. E. Richards), 1951, **66,** 1020 (ab)
—— iodine treatment of hyperthyroidism (J. E. Kearns and W. F. Hutson), 1951, **66,** 162 (ab)
—— iodine treatment of hyperthyroidism (E. P. McCullagh), 1952, **67,** 699 (ab)
—— iodine treatment of hyperthyroidism (E. R. Miller and others), 1952, **68,** 166 (ab)
—— iodine treatment of hyperthyroidism; determination of optimum dosage (B. J. Sweeney and others), 1952, **68,** 707 (ab)
—— iodine treatment of hyperthyroidism; dosage problem (E. R. Miller and G. E. Sheline), 1952, **68,** 708 (ab)
—— iodine treatment of hyperthyroidism; dosage; complications (W. G. Scott and others), 1951, **66,** *171
—— iodine treatment of incapacitated euthyroid cardiac patients by producing hypothyroidism with (H. L. Blumgart, A. S. Freedberg and G. S. Kurland), 1952, **67,** 704 (ab)
—— iodine treatment of pulmonary metastasis from papillary adenocarcinoma of thyroid (A. S. Freedberg, A. L. Ureles, M. F. Lesses and S. L. Cargill), 1951, **66,** 689 (ab)
—— iodine treatment of thyroid cancer; 119 cases (B. M. Dobyns and F. Maloof), 1952, **68,** 708 (ab)

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—— iodine treatment of thyroid cancer (R. Paterson), 1951, **66,** 329 (ab); preliminary report (H. C. Warrington), 1951, **66,** 330 (ab)
—— iodine treatment of thyroid carcinoma with multiple metastases and pathological fracture (J. Sorrentino, B. Roswit and R. Yalow), 1952, **68,** 853 (ab)
—— iodine treatment of thyrotoxicosis (E. S. Gordon and E. C. Albright), 1951, **65,** 676 (ab)
—— iodine treatment of toxic goiter complicating diabetes mellitus (B. Beidleman), 1951, **66,** 689 (ab)
—— iodine uptake after intravenous administration of tracer doses (J. P. Kriss), 1952, **67,** 337 (ab)
—— iodine uptake and excretion tests (T. H. Oddie and R. K. Scott), 1951, **66,** 162 (ab)
—— iodine uptake by Ascophyllum nodosum (S. Kelly and N. A. Baily), 1952, **67,** 1032 (ab)
—— iodine uptake by fetal mouse thyroid and resultant effects in later life (H. Speert, E. H. Quimby and S. C. Werner), 1952, **68,** 339 (ab)
—— iodine uptake by frog thyroid; effects of certain anti-thyroid drugs on (W. O. Bradley), 1952, **68,** 170 (ab)
—— iodine uptake by normal and disordered thyroid gland in children (E. H. Quimby and D. J. McCune), 1949, **61,** 574 (ab)
—— iodine uptake by thyroid; comparison of single G-M tube and multitube method of assaying (M. Perlmutter, S. Weisenfeld and M. Mufson), 1952, **68,** 539 (ab)
—— iodine uptake by thyroids of underfed rats (J. Meites and L. F. Wolterink), 1951, **65,** 335 (ab)
—— iodine uptake curves in humans (W. H. Beierwaltes, I. Lampe, H. J. Gomberg and G. H. Lowery), 1950, **64,** 362 (ab)
—— iodine uptake in hypermetabolism of acromegaly (E. P. McCullagh, A. Gold and J. B. R. McKendry), 1951, **66,** 163 (ab)
—— iodine, urinary excretion as measure of thyroid activity (A. S. Mason), 1951, **65,** 671 (ab)
—— iodine; use as tool in thyroid physiology (R. W. Rawson and B. N. Skanse), 1950, **63,** 295 (ab)
—— iodine; use in exploration of 85 cases of cancer of thyroid (R. Coliez, M. Tubiana, J. Dutreix and J. Guelfi), 1952, **68,** 857 (ab)
—— iodine; use in studying certain functions of normal and neoplastic thyroid tissues (R. W. Rawson and others), 1950, **63,** 621 (ab)
—— iodine; waste disposal, recommendations for medical users; National Bureau of Standards Handbook 49, 1952, **68,** 489 (bk. rev.)
—— isotopes; accidental skin ulcerations from; recognition, prevention and treatment (H. S. Patton and R. G. Millar), 1951, **65,** 672 (ab)
—— isotopes and the radiologist (instruction course) (E. H. Quimby), 1950, **64,** 133
—— isotopes; application for use (E. H. Quimby and C. B. Braestrup), 1950, **63,** *11
—— isotopes, artificial; applications in therapy (W. G. Myers), 1948, **60,** *816
—— isotopes, artificial; therapy manual (P. F. Hahn), 1952, **67,** 662 (bk. rev.)
—— isotopes as tracers; technics of use; basic courses, 1949, **61,** 570
—— isotopes; clinical use (J. H. Lawrence), 1951, **66,** 691 (ab)
—— isotopes, colloidal preparations; treatment of blood dyscrasias and malignant lymphomas (instruction course) (E. H. Reinhard), 1948, **60,** 123
—— isotopes; cost of isotope laboratory for hospital (E. H. Quimby and C. B. Braestrup), 1950, **63,** *10

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—— isotopes, cyclotron produced, distribution program, 1949, **62,** 440
—— isotopes; diagnostic use (L. Reynolds, K. E. Corrigan and H. S. Hayden), 1952, **68,** *421
—— isotopes; diagnostic use (scientific exhibit) (L. Reynolds, K. E. Corrigan and H. S. Hayden), 1950, **64,** 850
—— isotopes; distribution without charge for use in cancer research, diagnosis and treatment, 1948, **59,** 744
—— isotopes, dosage determination; practical considerations in therapy and protection (L. D. Marinelli, E. H. Quimby and G. J. Hine), 1948, **59,** *260
—— isotopes, dosage problems (instruction course) (E. H. Quimby), 1948, **60,** 122
—— isotopes, evaluation as adjunct to surgical diagnosis and therapy (M. M. Copeland), 1952, **68,** 706 (ab)
—— isotopes, Fe 59, study in iron metabolism in human pregnancy (P. F. Hahn and others), 1952, **67,** 338 (ab)
—— isotopes, hazards and protection in a hospital (M. Brucer), 1952, **68,** 856 (ab)
—— isotopes, hazards in use; comparison of three survey instruments for detecting unknown amounts of radiant energy (R. F. Cowing, E. DeAmicis and C. K. Spalding), 1951, **66,** *961
—— isotopes; hazards to physicians, patients, nurses and others (W. E. Chamberlain and others), 1949, **61,** *726
—— isotopes in circulation measurements (E. Lysholm), 1948, **59,** 150 (ab)
—— isotopes in localization of intracranial lesions with special reference to use of radioactive iodine-tagged human serum albumin (S. N. Chou, J. B. Aust, W. T. Peyton and G. E. Moore), 1952, **68,** 539 (ab)
—— isotopes in palliative management of carcinomatosis of pleura (E. M. Kent and C. Moses), 1952, **68,** 854 (ab)
—— isotopes; integral dose received from uniformly distributed (F. Bush), 1950, **63,** 620 (ab)
—— isotopes, internal, late sequelæ after (T. Leucutia), 1948, **60,** 679 (E)
—— isotopes; maximum permissible amounts, supplement; International Commission on Radiological Protection, 1951, **65,** *610
—— isotopes; measurement of radioactivity in patients (N. Veall), 1951, **66,** 326 (ab)
—— isotopes, medical use (J. H. Lawrence), 1951, **65,** 953 (E)
—— isotopes, metabolism by various fungi and bacteria (I. A. Pearson, J. M. Hammer, K. E. Corrigan and H. S. Hayden), 1949, **61,** *839
—— isotopes; nature and production (instruction course) (M. M. D. Williams), 1948, **60,** 122 (ab)
—— isotopes; planning hospital radioisotope facilities (instruction course) (C. B. Braestrup), 1949, **62,** 137
—— isotopes, positron-emitting, for localization of brain tumors (F. R. Wrenn, Jr., M. L. Good and P. Handler), 1952, **67,** 703 (ab)
—— isotopes; possible application to management of cancer (S. T. Cantril), 1951, **66,** 692 (ab)
—— isotopes; practical utilization in radiotherapy (instruction course) (H. B. Hunt), 1949, **62,** 138
—— isotopes, procurement, revised procedure, 1948, **59,** 744
—— isotopes, procurement; storage and handling; protection of personnel; dosage standardization; disposal of wastes (O. Glasser), 1951, **65,** *522

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—— isotopes; production and properties (instruction course) (K. E. Corrigan), 1949, **62,** 138
—— isotopes; program planning in the hospital (E. H. Quimby and C. B. Braestrup), 1950, **63,** *6
—— isotopes, protection from (K. Williaims), 1950, **64,** 721 (ab)
—— isotopes, protection, physical methods (W. G. Marley, 1950, **64,** 722 (ab)
—— isotopes, relation to medical treatment; practical aspects (J. S. Mitchell), 1952, **68,** 336 (ab)
—— isotopes research, courses in technics, 1950, **64,** 663
—— isotopes, research, new laboratory, 1950, **64,** 308
—— isotopes; round table workshop on technics and apparatus (instruction course) (K. E. Corrigan and others), 1952, **68,** 125
—— isotopes, study of peripheral vascular disease (D. C. Elkin and others), 1949, **61,** 289 (ab)
—— isotopes; study of peripheral vascular disease; diaignostic and therapeutic value of priscoline (M. T. Friedell, W. Indeck and F. Schaffner), 1951, **65,** 335 (ab)
—— isotopes; study of peripheral vascular disease (F. W. Cooper, D. C. Elkin, P. C. Shea and E. W. Dennis), 1950, **63,** 961 (ab)
—— isotopes; technic courses, Oak Ridge Institute of Nuclear Studies, 1949, **62,** 898
—— isotopes; therapeutic uses (R. J. Walton), 1951, **66,** 331 (ab); (G. W. Blomfield), 1951, **66,** 331 (ab)
—— isotopes; tracers and nuclear radiations with applications to biology and medicine (W. E. Siri), 1950, **63,** 428 (bk. rev.)
—— isotopes, tracers; diagnostic use (instruction course) (K. E. Corrigan), 1951, **66,** 269
—— isotopes; treatment of malignant tumors (G. Bickel), 1950, **64,** 369 (ab)
—— isotopes; treatment of multiple myeloma (J. H. Lawrence and L. R. Wasserman), 1951, **66,** 161 (ab)
—— isotopes; use as tracers; courses in technic, 1949, **62,** 743
—— isotopes; use in research, course in technics, 1952, **67,** 489
—— isotopes; use in surgical research (F. D. Moore), 1949, **61,** 288 (ab)
—— isotopes; wire recorder for recording Geiger-Müller pulses (W. B. Miller, Jr.), 1951, **65,** 672 (ab)
—— mercury distribution in some body fluids of man (C. T. Ray, G. E. Burch, S. A. Threefoot and F. J. Kelly), 1951, **66,** 332 (ab)
—— mercury; urinary excretion after oral administration of a mercurial diuretic; tracer studies (W. J. Overman, W. H. Gordon, Jr and G. E. Burch), 1951, **65,** 336 (ab)
—— penicillin, absorption and excretion studies (S. Rowlands, D. Rowley and H. D. Stewart), 1949, **62,** 465 (ab)
—— phosphates in tissues, routine detection; inverted autograph (L. F. Belanger), 1951, **65,** 676 (ab)
—— phosphorus; action in Drosophila (J. Blumel), 1950, **64,** 362 (ab)
—— phosphorus; arrest of development of Plasmodium gallinaceum in mosquitoes (Aedes aegypti) by radiation effect of P 32 (P. F. Hahn, V. H. Haas and A. Wilcox), 1951, **65,** 675 (ab)
—— phosphorus; autoradiographic studies of non-uniform distribution in tissues (L. F. Lamerton and E. B. Harriss), 1952, **68,** 537 (ab)
—— phosphorus; biological half-life in blood of patients with leukemia (H. Tivey and E. E. Osgood), 1951, **66,** 694 (ab); 695 (ab); (E. E. Osgood and H. Tivey), 1951, **66,** 694 (ab); 695 (ab)

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—— phosphorus, calibrated solution standards, availability, 1950, **63,** 747
—— phosphorus; clinical use in surgery of brain tumors (B. Selverstone, E. H. Sweet and C. V. Robinson), 1950, **64,** 364 (ab)
—— phosphorus; determination of blood volume with (M. Schwaiger and K. Schmeiser), 1952, **67,** 1932 (ab)
—— phosphorus; diagnosis of avascular necrosis of femoral head (F. R. Tucker), 1950, **64,** 893 (ab)
—— phosphorus; diagnosis of testicular tumors (B. Roswit, J. Sorrentino and R. Yalow), 1951, **65,** 674 (ab)
—— phosphorus; effect on bone grafts (R. T. Odell, C. B. Mueller and J. A. Key), 1952, **67,** 700 (ab)
—— phosphorus; effect on growth of albino rat (M. M. Kligerman), 1950, **63,** *380
—— phosphorus, effect on development of teeth and mandibular joint of mouse (M. S. Burstone), 1951, **66,** 162 (ab)
—— phosphorus; effects of continuous radiation on chick embryos and developing chicks; growth rate, gonads and bone (S. Warren and F. Dixon), 1950, **63,** 624 (ab)
—— phosphorus; effects of continuous radiation on chick embryos and developing chicks; bone marrow, lymphoid tissue and peripheral blood (S. Warren and F. L. Dixon), 1950, **63,** 626 (ab)
—— phosphorus; evaluation as adjunct to surgical diagnosis and therapy (M. M. Copeland), 1952, **68,** 707 (ab)
—— phosphorus; growth of human leukemic leucocytes in vitro and in vito as measured by uptake in desoxyribose nucleic acid (E. E. Osgood and others), 1952, **67,** 705 (ab)
—— phosphorus injection in determination of blood volume in heart and lungs and cardiac output (G. Nylin and H. Celander), 1950, **64,** 363 (ab)
—— phosphorus, internal, of mice; effects (S. Warren, J. C. MacMillan and F. J. Dixon), 1951, **66,** 690 (ab)
—— phosphorus, intravenous, estimation of dosage; calculation based on 2 compartment distribution of isotope (B. V. A. Low-Beer, R. S. Blais and N. E. Scofield), 1952, **67,** *28
—— phosphorus, partition in blood, urine and tumor tissue in Hodgkin's disease and lymphosarcoma before and after treatment with nitrogen mustard (S. P. Masouredis and others), 1952, **67,** 334 (ab)
—— phosphorus percent radiation measured by survey instruments (R. F. Cowing, E. DeAmicis and C. K. Spalding), 1951, **66,** *964
—— phosphorus poisoning in rats; biologic effects (S. Koletsky and J. H. Christie), 1952, **67,** 338 (ab)
—— phosphorus, production of malignant tumors in rats with (S. Koletsky, F. J. Bonte and H. L. Friedell), 1950, **64,** 905 (ab)
—— phosphorus, single large injection, histological changes in albino rats and in C_3H mice (B. Grad and C. E. Stevens), 1951, **65,** 343 (ab)
—— phosphorus standards solutions by National Bureau of Standards, 1952, **67,** 123
—— phosphorus studies on blood-brain barrier (L. Bakay), 1952, **68,** 167 (ab)
—— phosphorus study of early phases of calcification in bone; effect of ACTH and vitamin D (A. A. Angrist, A. W. Schwarz, S. S. Brodie and A. J. Shapiro), 1952, **68,** 854 (ab)
—— phosphorus study of phosphate exchange between urine in renal pelvis and renal calculi containing phosphate (J. A. Benjamin, W. F. Neuman, H. E. Thompson and C. Waterhouse), 1951, **65,** 336 (ab)

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—— phosphorus study of viability of autogenous frozen bone grafts (C. L. Kiehn and others), 1951, **66,** 690 (ab)
—— phosphorus; suppression of gastric acidity with beta particles of P 32 (N. Simon), 1950, **63,** 961 (ab)
—— phosphorus; surface activity after administration (A. Geffen, R. Loevinger and B. S. Wolf), 1952, **67,** 702 (ab)
—— phosphorus, titrated; regularly spaced therapy or spray roentgen therapy of leukemias (E. E. Osgood), 1952, **67,** 339 (ab)
—— phosphorus; tracer studies on absorption of cerebrospinal fluid and problem of hydrocephalus (J. E. Adams), 1952, **67,** 700 (ab)
—— phosphorus treatment and diagnosis (E. C. Dougherty and J. H. Lawrence), 1949, **61,** 879 (ab)
—— phosphorus treatment in primary polycythemia (C. F. Stroebel, B. E. Hall and G. L. Pease), 1952, **68,** 167 (ab)
—— phosphorus treatment of blood dyscrasias and malignant lymphomas (instruction course) (E. H. Reinhard), 1948, **60,** 123 (ab)
—— phosphorus treatment of carcinoma of breast with widespread metastases to bone (H. L. Friedell and J. P. Storaasli), 1950, **64,** *559
—— phosphorus treatment of chronic lymphatic leukemia (J. H. Lawrence, B. V. A. Low-Beer and J. W. J. Carpender), 1950, **63,** 962 (ab)
—— phosphorus treatment of lymphatic leukemia (H. D. Diamond, L. F. Craver, H. Q. Woodward and G. H. Parks), 1951, **66,** 689 (ab)
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Rodholm, A. K., and **Phemister, D. B.:** Cyst-like lesions of carpal bones, associated with ununited fractures, aseptic necrosis and traumatic arthritis, 1948, **60,** 282 (ab)
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Røjel, K.: On linitis plastica and on sclerosing carcinoma of stomach (carcinoma disseminatum Krompecher; carcinoma fibrosum Konjetzny), 1950, **64,** 162 (ab)
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—— and identification of diaphragmatic hernia (instruction course) (B. R. Kirklin), 1950, **64,** 136
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—— cancer detected in surveys (R. H. Overholt), 1951, **66,** 844 (ab)
—— chest after thoracic operations; surgical aspects (P. R. Allison), 1951, **66,** 123 (ab)
—— chest lesions often confused roentgenographically with primary cancer of lung (P. C. Swenson and R. H. Leaming), 1950, **63,** *629
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—— clinical and roentgenological implications of hyaluronidase (T. Leucutia), 1949, **61,** 405 (E)
—— clinical importance of lesions undetected in mass radiographic survey of chest (H. B. Zwerling, E. R. Miller, J. T. Harkness and J. Yerushalmy), 1952, **68,** 313 (ab)
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—— critical evaluation of mass roentgen surveys (K. R. Boucot and D. A. Cooper), 1951, **65,** 499 (ab)
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—— direct serial roentgenography in two planes simultaneously at 0.08 second intervals; apparatus and its application to angiocardiography (G. Fredzell, J. Lind, E. Ohlson and C. Wegelius), 1950, **63,** *548
—— early, in acute bleeding from upper gastrointestinal tract; roentgen aspects (M. Ritvo, T. P. Cotter and N. Zamcheck), 1951, **66,** *728
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—— evaluation in ophthalmology, rhinology and otolaryngology (D. H. Anthony and D. F. Fisher), 1948, **60,** 699 (ab)
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—— examination by plain and kymographic technics in uncomplicated diaphragmatic injuries (R. Haubrich), 1952, **67,** 863 (ab)
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—— fast radiological visceral survey (C. Gianturco), 1950, **64,** 689 (ab)
—— features of primary tumors of ureter (R. B. Holmes), 1952, **67,** 678 (ab)
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—— high voltage technic in diagnosis of polypoid growths of colon (C. Gianturco), 1951, **65,** 986 (ab)
—— improved method of visualization of sigmoid (G. H. Fletcher), 1948, **59,** *750
—— in acro-osteolysis; new clinical entity (H. Harnasch), 1950, **64,** 553 (ab)
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—— in arthropathies (A. A. deLorimier), 1950, **63,** 590 (bk. rev.)
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—— in urology; retroperitoneal emphysemas (F. Baena and J. Mattoso Filho), 1952, **67,** 1017 (ab)
—— initial roentgen signs of coxitis in children; little known sign for early diagnosis (G. Marcozzi), 1950, **64,** 710 (ab)
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—— of activity of minimal pulmonary tuberculosis; accuracy of (P. C. Birkelo and P. O. Rague), 1948, **60,** *303
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—— of cancer of stomach; problems (S. C. Shanks), 1950, **64,** 690 (ab)
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—— of colon, conduct and applications (instruction course) (C. A. Stevenson), 1951, **66,** 274
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—— of diseases of spinal cord and nerve roots (scientific exhibit) (E. H. Wood and E. H. Schnap), 1950, **64,** 849
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—— of fetal abnormalities (J. B. Hartley), 1950, **64,** 168 (ab)
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—— of tuberculosis; common pitfalls (J. D. Wassersug), 1952, **68,** 503 (ab)
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—— oil contrast examination of gastric mucosa (C. Gianturco), 1949, **62,** *564
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—— phlebography of normal lower extremity; evaluation (B. S. Epstein, M. G. Wasch and L. Loewe), 1948, **60,** *650
—— placenta previa, arterial visualization (L. J. Hartnett), 1948, **60,** 575 (ab)
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—— pulmonary lesions discovered by mass survey (D. Clark, C. W. Tempel and K. D. A. Allen), 1951, **65,** 825 (ab)
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—— roentgen manifestations of bronchogenic tumors (instruction course) (L. G. Rigler), 1948, **60,** 124 (ab)
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—— role of roentgenologist in proposed plan for small film screening of inhabitants of major cities (T. F. Hilbish), 1950, **63,** 439 (ab)
—— routine antenatal chest x-ray findings in patients drawn from a currently surveyed population (H. J. Bickerstaff, G. W. Comstock and M. H. Burke), 1951, **66,** 851 (ab)
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—— sign, early, in acute pancreatitis; localized paralytic ileus (A. I. Grollman, S. Goodman and A. Fine), 1951, **65,** 987 (ab)
—— sign of fetal death (S. N. Tager), 1952, **67,** *106
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—— specificity and reliability (M. C. Sosman), 1951, **66,** 149 (ab)
—— studies on reliability of mass x-ray surveys (L. H. Garland), 1951, **66,** 844 (ab)
—— surgical conditions of the newborn infant (L. R. Wiener and J. B. Richmond), 1950, **64,** 875 (ab)
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—— technic of examination in penetrating wounds of the abdomen (M. Slater), 1948, **59,** *173

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—— "thoracic waist" (F. Polgar), 1950, **63,** *345
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—— unusual variant of double aortic arch (M. Lubert, H. C. Epstein, H. Mendelsohn and S. O. Freedlander), 1952, **67,** *763
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—— absorption; mass of gastric mucosa cells measured by (A. Engstrom and D. Glick), 1951, **65,** 344 (ab)
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—— anatomy of oblique views of lumbar spine (L. E. Etter and N. C. Carabello), 1949, **61,** *699
—— and beta rays, lead glass fabric as protective against (scientific exhibit) (V. W. Archer and others), 1949, **62,** 740
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—— and neutron effects on protein content of rat intestine (M. H. Ross and J. O. Ely), 1949, **62,** *718
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—— beam, determination of quality; calibrated roentgen ray film badge dosimeter (E. Tochilin, R. H. Davis and J. Clifford), 1950, **64,** *486
—— beam director for precision radiation therapy (B. Roswit), 1951, **65,** *115
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—— contact injuries to growing bone and their prevention (C. Montag), 1952, **67,** 343 (ab)
—— contrast demonstration and evaluation of diverticula of bladder (A. Frei), 1952, **67,** 1019 (ab)
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—— demonstration of displaced intracranial physiologic calcification and its significance in diagnosis of brain tumors and other space-occupying diseases (B. R. Young), 1950, **64,** 313 (ab)
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—— effect on healing of wounds; histological changes in skin wounds in rats following postoperative irradiation with very small and moderate doses (E. A. Pohle, G. Ritchie and W. W. Moir), 1950, **63,** 623 (ab)
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—— examination, conventional, in operable congenital heart disease (H. M. Stauffer), 1950, **64,** 328 (ab)
—— examination, double contrast, of small intestine (J. Friedman and L. G. Rigler), 1951, **65,** 158 (ab)
—— examination in certain abnormalities of the esophagus (instruction course) (R. Schatzki), 1948, **60,** 131 (ab)

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—— examination in diseases of upper gastrointestinal tract, diagnostic accuracy (T. Haley and W. M. Sennott), 1952, **67,** 155 (ab)
—— examination in hypertrophic pyloric stenosis in infants; reliability (H. W. Hefke), 1950, **64,** 546 (ab)
—— examination of acute abdomen (instruction course) (L. L. Robbins and W. R. Eyler), 1951, **66,** 274
—— examination of bones and joints, value of tomography in (F. J. Wood), 1950, **63,** 783 (ab)
—— examination of chest (L. G. Rigler), 1951, **65,** 146 (ab)
—— examination of colon, conduct and some applications (instruction course) (C. A. Stevenson), 1950, **64,** 138
—— examination of colon following colostomy, device for (J. C. Root and A. A. Rayle, Jr.), 1951, **65,** 682 (ab)
—— examination of colon; important clinical dividends from (F. J. Hodges and H. C. MacMillan), 1952, **68,** 686 (ab)
—— examination of defunctioned colon after ileostomy, with special reference to the safety and practical value of thorium dioxide as contrast medium (J. Shull, M. D. Schulz and C. M. Jones), 1950, **64,** 164 (ab)
—— examination of digestive tract (R. Golden), 1950, **64,** 144 (bk. rev.)
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—— examination of mastoids (instruction course) (A. S. Macmillan), 1948, **60,** 130; 1949, **62,** 144; 1952, **68,** 129
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—— examination of nasopharynx; contribution to (M. H. Moreau and J. E. Moreau), 1951, **65,** 142 (ab)
—— examination of operatively exposed kidneys, easily sterilizable, flexible cassette with intensifying screens for (O. Olsson), 1950, **63,** 963 (ab)
—— examination of pancreas in children; new method (G. Sansone, N. Macarini and L. Oliva), 1952, **68,** 834 (ab)
—— examination of paranasal sinuses with particular reference to frontal sinuses (S. Welin), 1949, **62,** 902 (ab)
—— examination of resected stomach by means of protein and fat barium particles (A. Leb), 1952, **68,** 833 (ab)
—— examination of respiratory apparatus, serialographic investigation (L. Castaldi), 1949, **62,** 585 (ab)
—— examination of 1,700 ulcer cases during and after the war (W. Krämer and K. Sarre), 1950, **64,** 161 (ab)
—— examination of sinuses and mastoids (instruction course) (A. S. Macmillan), 1950, **64,** 136; 1951, **66,** 272
—— examination of the sinuses (instruction course) (A. S. Macmillan), 1948, **60,** 130; 1949, **62,** 144; 1952, **68,** 129
—— examination of small intestine, rapid method (scientific exhibit) (S. Weintraub and R. G. Williams), 1948, **60,** 556
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—— examination of stomach in symptomless persons (L. G. Rigler), 1949, **62,** 449 (ab)

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—— examination of veins of pelvis in women (P. Guilhem, R. Baux, J. Fournie and J. Paille), 1951, **66,** 1010 (ab)
—— examination, qualitative anatomical diagnosis in distal portion of stomach and duodenal bulb on basis of (W. Kronen), 1952, **68,** 315 (ab)
—— examinations, comparative distribution, University of Minnesota Hospital (S. W. Donaldson), 1951, **66,** *944
—— examinations in acute abdominal disease (J. Frimann Dahl), 1952, **68,** 478 (bk. rev.)
—— exposure danger in blind nailing technic (C. A. Rowe), 1952, **68,** 524 (ab)
—— exposures, rapid serialized, on roll film 9½ inches wide for cerebral angiography (W. G. Scott and W. B. Seaman), 1951, **66,** 835 (ab)
—— fetal tolerance to (A. A. Hobbs, Jr.), 1950, **64,** 88 (ab)
—— film badge dosimeter, calibrated (E. Tochilin, R. H. Davis and J. Clifford), 1950, **64,** *475
—— films, sensitometry (J. F. Roderick), 1951, **65,** *109
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—— findings in functional disturbances of gastrointestinal tract (P. C. Swenson and W. F. Manges), 1949, **62,** 448 (ab)
—— high doses, lethal irradiation of mice with (P. Bonet-Maury and F. Patti), 1952, **68,** 346 (ab)
—— high energy, appraisal of risks (H. Quastler and others), 1949, **61,** *592
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—— high voltage, protection from (K. Williams), 1950, **64,** 721 (ab)
—— histological and histochemical study of skin of guinea pig treated with (J. Fredericq and M. Chevremont), 1949, **61,** 886 (ab)
—— images; analysis of physical factors controlling diagnostic quality; unsharpness (R. H. Morgan), 1949, **62,** *870
—— in atelectasis of newborn, with special reference to changes in cardiac silhouette (J. F. Martin and H. L. Friedell), 1952, **67,** *905
—— in evaluation of lesser circulation as portrayed by the roentgenogram (W. W. Wasson), 1949, **61,** *30
—— in prevention and treatment of infections (J. F. Kelly, D. A. Dowell and J. E. Downing), 1949, **62,** 917 (ab)
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—— influence of dose fractionation on lethal x-ray effect produced by total body irradiation in mice (F. Ellinger and J. C. Barnett), 1950, **64,** 556 (ab)
—— injuries of intestine (W. Ceelen), 1951, **65,** 334 (ab)
—— intense, of short duration intended for biophysical research work and for special treatment purposes; roentgen apparatus for (R. M. Sievert), 1950, **64,** 889 (ab)
—— interpretation of children's chest x-rays (L. G. Blair), 1949, **61,** 121 (ab)
—— interpretation problems in minimal tuberculosis (I. D. Bobrowitz and A. Hurst), 1950, **63,** 763 (ab)
—— irradiated animals, circulation; disappearance rate of tagged substances from (L. Wish, J. Furth, C. W. Sheppard and R. H. Storey), 1952, **67,** *628

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—— irradiation; deep tolerance dose of brain tissue to (W. Zeman), 1950, **64,** 883 (ab)
—— irradiation, effect on erythrogenesis, plasma and cell volumes (J. Furth, G. A. Andrews, R. H. Storey and L. Wish), 1952, **67,** 344 (ab)
—— irradiation, effect of over-all time of exposure upon survival of young chicks (S. P. Stearner and E. J. B. Christian), 1951, **65,** *272
—— irradiation; extreme retardation of epiphyseal growth by (C. H. Frantz), 1951, **66,** 685 (ab)
—— irradiation in inoperable cancer by non-alternate chessboard or sieve method; comparative results with other methods (scientific exhibit) (H. Marks), 1952, **68,** 826
—— irradiation, local; reaction of tissues of amphibians after (V. V. Brunst, D. J. Barnett and F. H. J. Figge), 1951, **66,** *420
—— irradiation, local, response of transplantable mouse mammary tumor to; transparent chamber observations (R. Merwin, G. H. Algire and H. S. Kaplan), 1952, **67,** 350 (ab)
—— irradiation, mid-lethal; influence of infection on hematological effects and mortality (in dogs) (L. R. Bennett, P. E. Rekers and J. W. Howland), 1952, **68,** 340 (ab)
—— irradiation mortality in rats, inability of thiourea to modify (T. J. Haley, S. Mann and A. H. Dowdy), 1952, **68,** 170 (ab)
—— irradiation of desoxyribosenucleic acid; mechanism of action of irradiation in aqueous solution; physicochemical properties from desoxyribosenucleic acid irradiated rats (G. Limperos and W. A. Mosher), 1950, **63,** *681; *691
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—— irradiation; prophylactic in artificially produced pneumonic infection (R. Pape, O. Pendl and R. Seyss), 1952, **67,** 181 (ab)
—— irradiation, therapeutic, excretion of 17-ketosteroids during (W. Schlungbaum), 1952, **68,** 535 (ab)
—— irradiation, total body; effect on long bones of hamsters (B. M. Levy and R. Ruth), 1952, **67,** *974
—— irradiation, total body, of mammals, protective action of anoxic anoxia (A. H. Dowdy, L. R. Bennett and S. M. Chastain), 1951, **66,** 700 (ab)
—— irradiation, total, in Triton, time factor in lethal effects (V. V. Brunst and E. A. Sheremetieva-Brunst), 1949, **62,** *550
—— lawful behavior of flocculation count in irradiation of man (M. Takata), 1951, **66,** 1027 (ab)
—— lethal dose for rats, effect of exercise on (D. J. Kimeldorf, D. C. Jones and M. C. Fishler), 1951, **66,** 334 (ab)
—— lethal dose to mice, protection by cyanide, azide and malononitrile (Z. M. Bacq and A. Herve), 1952, **68,** 866 (ab)
—— localization of foreign bodies in the eye (instruction course) (A. A. J. Den), 1951, **66,** 269
—— low absorption, measurements from 500 to 1,000 kilovolts (E. D. Trout and Z. J. Atlee), 1949, **61,** 588 (ab)
—— low dosage, effect on gonadotropic function of hypophysis of mature and immature female albino rat (J. H. Freed, E. J. Farris, D. P. Murphy and E. P. Pendergrass), 1949, **61,** 884 (ab)

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—— media, compounds of zirconium for (S. W. Hunter, J. Miree and H. Bloch), 1950, **64,** 370 (ab)
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—— methods in obstetrics (instruction course) (P. C. Swenson), 1951, **66,** 275
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—— mortality in swine and dose distribution studies in phantoms exposed to supervoltage roentgen radiation (J. L. Tullis, F. W. Chambers, Jr., J. E. Morgan and J. H. Zeller), 1952, **67,** *620
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—— pelvicephalometry, simplified method (A. K. Wilson), 1948, **59,** *688
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—— pelvimetry, elastic ruler for (C. Gianturco), 1949, **61,** 584 (ab)
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—— picture of calcified cataract (E. Vogler), 1951, **66,** 832 (ab)
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—— radiation, acute whole body; comparison of normal and hypothyroid mice (T. Haley, S. Mann and A. Dowdy), 1951, **66,** 338 (ab)
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—— radiation; relative biological effectiveness as shown by radiotoxicity of Na 24 for mice (R. H. Snyder and W. E. Kisieleski), 1951, **65,** 684 (ab)
—— radium combined treatment of esophageal carcinoma; significance of relief diagnosis of esophageal cancer as regards the radiotherapeutic procedure (A. Vogt), 1950, **64,** 885 (ab)
—— rapid automatic serialization of x-ray exposures by rapidograph utilizing roll film 9½ inches wide (W. G. Scott and S. Moore), 1950, **64,** 372 (ab)
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—— reticular appearance of perirenal fat tissue in extraperitoneal neumoabdomen (retropneumoperitoneum and tomography) (L. Vespignani), 1952, **68,** 835 (ab)
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—— sensitivity of human skin determined by threshold erythema; individual differences (R. Helmke), 1950, **64,** 355 (ab)
—— sign of altered alimentary function after autonomic blockade with tetraethylammonium (J. F. Holt and others), 1949, **61,** 733 (ab)
—— single massive doses, effect upon liver; experimental study (I. M. Ariel), 1952, **68,** 543 (ab)
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—— study of effect of radioactive phosphorus on growth of albino rat (M. M. Kligerman), 1950, **63,** *393
—— study of muscle tumors primary in the lung (R. S. Sherman and B. H. Malone), 1951, **65,** 505 (ab)
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—— superficial; single exposures in cancer of skin (L. J. Mallender), 1951, **65,** 326 (ab)
—— supervoltage, physical basis for high skin tolerance of (J. G. Trump), 1949, **62,** 775 (ab)
—— synchroton accelerator; its potentialities as generator of x-rays and electrons of 10-50 McV energies for medical use (D. W. Fry), 1950, **64,** 371 (ab)
—— technic for visualization of heart and great vessels (F. F. McAllister and C. S. Beck), 1951, **65,** 340 (ab)
—— technic of cerebral angiography (B. Kuss), 1952, **67,** 838 (ab)
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—— toxicity; effect of adrenal cortical injury on (B. N. Craver), 1948, **59,** *404
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—— tube, target; study of quality and origin of parasitic radiation from (L. Mallet and R. Maurin), 1949, **61,** 589 (ab)
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—— 20 million volt, biological evaluation; efficiency and dosage range (H. Quastler and E. F. Lanzl), 1950, **63,** *566
—— 20 million volt, biological evaluation; recessive sex-linked lethals in Drosophila melanogaster (W. M. Luce, H. Quastler and L. K. Skaggs), 1949, **62,** *555

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—— 250 kv, depth dose measurements for (C. B. Braestrup, G. H. Cameron and P. McClement), 1949, **61,** *397
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—— changes in small intestine; surgical aspects (H. M. Wiley and E. D. Sugarbaker), 1951, **66,** 160 (ab)
—— cones, penubra effect (A. Raventos and G. S. Schwarz), 1951, **66,** 1026 (ab)
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—— effect on bitemporal hemianopsia produced by pituitary tumor (K. Overhof and T. Siekmann), 1951, **65,** 328 (ab)
—— effect on mouse encephalitis (W. A. Tanner and J. E. McConchie), 1950, **63,** 963 (ab)
—— effect on tissue reactions to fibrin film (O. T. Baily, F. D. Ingraham, E. B. D. Neuhauser and C. A. Cobb, Jr.), 1949, **61,** 263 (ab)
—— end-results in treatment of ovarian cancer with surgery and deep x-ray irradiation (H. E. Schmitz and J. T. Majewski), 1952, **68,** 853 (ab)
—— for cancer of breast (instruction course) (E. T. Leddy), 1948, **60,** 126
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—— hazardous in benign bone lesions? 1949, **62,** 891 (E)
—— high voltage treatment of amenorrhea and sterility in women (I. I. Kaplan), 1948, **59,** *370
—— histologic changes in squamous cell carcinoma of mouth and oropharynx produced by fractionated external roentgen irradiation (J. W. Hall and M. Friedman), 1949, **62,** 611 (ab)
—— in certain nonmalignant conditions (E. J. McDonald), 1951, **65,** 328 (ab)
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—— in ophthalmology (A. Franceschetti, R. Sarasin and C. Balavoine), 1952, **68,** *38
—— in tuberculosis of female genitalia treated at Institute of Radiology of University of Parma; 10 year study (I. Orlandini), 1951, **66,** 158 (ab)
—— intravaginal, in cancer of cervix; improved methods (E. C. Ernst), 1949, **61,** 875 (ab)
—— laryngeal chondronecrosis after (W. A. Goodrich and M. Lenz), 1948, **60,** *22
—— low voltage-short distance (instruction course) (R. H. Chamberlain), 1949, **62,** 140
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—— malleable cones for (R. S. Leighton), 1949, **61,** *245
—— million volt (I. G. Williams), 1950, **63,** 614 (ab)
—— of amenorrhea in young women (L. M. Randall), 1948, **59,** 609 (ab)
—— of cancer of breast (instruction course) (M. Lenz), 1949, **62,** 141; 1952, **68,** 127
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—— of external infections due to Bacillus anthracis (M. Riebeling), 1949, **62,** 917 (ab)
—— of functional disorders and biologic dosage of roentgen rays (W. Lahm), 1950, **64,** 881 (ab)

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—— of inflammatory conditions affecting legs of thoroughbred horses (P. J. Meginnis and E. F. Lutterbeck), 1952, **67,** 331 (ab)
—— of intrinsic and extrinsic tumors of larynx; biological problems (A. Zuppinger), 1952, **68,** 162 (ab)
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—— of pain (W. F. Reichel), 1950, **64,** 356 (ab)
—— of residual tuberculous cavities after thoracoplasty (H. Deist), 1951, **66,** 323 (ab)
—— of skin cancer; influence of dosage on success of treatment (C. H. Hale and G. W. Holmes), 1949, **61,** 583 (ab)
—— 1,000-kv., 400-kv., and 200-kv.; some observations (W. T. Murphy and M. C. Reinhard), 1951, **66,** 1013 (ab)
—— 1,000-kv. irradiation damage of intestines; evaluation of tolerance dose (H. I. Amory and I. B. Brick), 1951, **66,** 1014 (ab)
—— origin, birth and early history (E. H. Grubbe), 1950, **63,** 750 (bk. rev.)
—— pathogenesis of roentgen sickness (G. del Buono), 1951, **66,** 338 (ab)
—— physical and clinical aspects of supervoltage rotational therapy (H. F. Hare and others), 1952, **68,** 342 (ab)
—— pioneer: Emil H. Grubbe's private library given to John Crerar Library, 1949, **61,** 730
—— practical x-ray treatment (A. W. Erskine), 1948, **60,** 433 (bk. rev.)
—— prophylactic, osteogenic sarcoma after (S. Spitz and N. I. Higinbotham), 1952, **68,** 336 (ab)
—— radium and phototherapy; general irradiation therapy (O. Jüngling), 1951, **65,** 290 (bk. rev.)
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—— sarcoma arising in irradiated bone; 11 cases (W. C. Cahan and others), 1949, **62,** 464 (ab)
—— should precede radium therapy in cervical cancer (J. F. Hynes), 1948, **60,** *373
—— supervoltage; clinical usefulness and limitations (S. T. Cantril and F. Buschke), 1950, **64,** 354 (ab)
—— supervoltage; physical and clinical aspects (H. F. Hare and others), 1952, **68,** 342 (ab)
—— three million-volt; further observations (R. Dresser), 1949, **62,** 775 (ab)
—— 200 kv. and supervoltage; comparison (instruction course) (T. Leucutia), 1948, **60,** 126
—— transvaginal in carcinoma of cervix uteri (instruction course) (R. M. Caulk), 1949, **62,** 139
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—— treatise (F. Perussia and E. Pugno-Vanoni), 1950, **63,** 427; 591 (bk. rev.)
—— two million volt using rotation (J. G. Trump and others), 1951, **66,** *613
—— uniform contact for large areas; simple device and method (E. F. Lutterbeck and I. F. Hummon), 1951, **66,** 1012 (ab)
—— use of wedge filters in (F. Ellis, W. Shanks, L. A. W. Kemp and R. Oliver), 1951, **65,** 322 (ab)
—— value of cross-section diagrams in delivering accurate x-ray therapy into female pelvis (J. Love, G. N. Combs, W. A. Askew and M. Harcourt), 1952, **68,** 156 (ab)

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—— study of cardiac valvular calcifications (A. Lura and G. D. Botti), 1950, **64,** 329 (ab)
—— study of heart and great vessels; clinical case studies (H. M. Stauffer and J. Jorgens), 1950, **63,** 764 (ab)
—— study of heart in myasthenia gravis (R. C. Batt), 1949, **61,** 274 (ab)
—— study in 13 cases of dilatation and pulsation of left subclavian artery in roentgen ray diagnosis of coarctation of aorta (H. M. Stauffer and L. G. Rigler), 1950, **64,** 687 (ab)

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—— and gross pathologic findings in lesions of gastrointestinal tract, correlation (instruction course) E. L. Pirkey), 1952, **68,** 130
—— Annual Lipiodol Awards, 1948, 1948, **60,** 848
—— appearance of centers of ossification in human pelvis before birth (C. C. Francis), 1951, **65,** *778
—— Chassard-Lapine and recumbent positions in roentgen measurement of pelvic outlet; comparative accuracy (M. Van Herik and C. A. Good), 1951, **65,** 161 (ab)
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—— chest, in evaluation of lesser circulation (W. W. Wasson), 1949, **61,** *30
—— chest, in mental deficiency (J. T. Danzer), 1948, **59,** 147 (ab)
—— chest; separation study of 24,615 films (B. J. O'Loughlin), 1949, **61,** 275 (ab)
—— chest, serial; evaluation of role in estimating progress of disease in patients with pulmonary tuberculosis (J. Yerushalmy and others), 1952, **68,** 312 (ab)
—— colored (G. E. Donovan and G. Jones), 1952, **68,** 354 (ab)
—— dental, interpretation (instruction course) (L. T. Austin), 1948, **60,** 128
—— double contrast, of stomach; additional aid in diagnosis (E. L. Pirkey), 1949, **62,** *70
—— duplication of artificial solarization with emphasis on a simple standardized technic (W. H. Roper), 1951, **65,** 678 (ab)
—— effect of irradiation on dental system as demonstrated by (K. W. Bruce and E. C. Stafne), 1951, **66,** 831 (ab)
—— film faults caused by contact between roentgen films during development (O. Mattsson), 1951, **66,** 338 (ab)
—— identification of right and left sides by permanent cassette marker (C. B. Holman and J. D. Camp), 1952, **67,** 342 (ab)
—— importance in posterior protrusion of lumbar intervertebral disc (G. F. Boult, M. K. Kiernan and A. E. Childe), 1951, **66,** *752
—— influence of exposure factors on roentgenographic quality (instruction course) (A. W. Fuchs), 1948, **60,** 125
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—— lateral and postero-anterior, undistorted vertical projections of head from (W. L. Wylie and W. A. Elsasser), 1948, **60,** *414
—— mass roentgenological survey of gastrointestinal tract to detect cancer of stomach (S. Moore), 1949, **61,** *470
—— method of demonstrating kidney function by (J. Bader), 1952, **68,** 517 (ab)
—— necessity of diagnostic and therapeutic nerve blocks (J. W. Pender and D. G. Pugh), 1952, **67,** 1020 (ab)
—— new film projector for full-sized original roentgenograms (E. Gordon and J. J. Schwartzman), 1952, **68,** 168 (ab)
—— new roll-film serial apparatus for roentgenograms 30 × 30 cm. in size (R. Janker), 1952, **67,** 711 (ab)
—— normal postmortem chest (M. H. Poppel and others), 1952, **67,** *265
—— occlusal; value in locating impacted mandibular third molars (G. W. Matthews), 1952, **67,** 505 (ab)
—— of chest, rib notching; 2 unusual cases (M. C. McCord and F. A. Bavendam), 1952, **67,** *405
—— of colon after colostomy; method for improvement (W. M. Loehr), 1950, **64,** *835
—— of cranium and brain; craniopharyngioma (L. Haas), 1951, **65,** 131 (bk. rev.)
—— of heart in rheumatic fever (P. Wood), 1950, **64,** 1040 (ab)
—— of lateral lumbar spine; use of filters to control radiation exposure to patient (E. D. Trout, J. P. Kelley and G. A. Cathey), 1952 **67,** *953
—— of long bones in infants; double contour, cupping and spurring in (K. Glaser), 1949, **61,** *482
—— of small bowel mucosa; variabilities (W. G. Deucher), 1950, **64,** 548 (ab)
—— pathology of ureters in the roentgenogram (A. Thelen), 1951, **65,** 132 (bk. rev.)
—— pelvic; use of filters to control radiation exposure to patient (E. D. Trout, J. P. Kelley and G. A. Cathey), 1952, **67,** *953
—— plain, of skull; manifestations of intracranial disease (instruction course) (A. E. Childe), 1949, **62,** 142
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—— "positive pressure" chest, in pulmonary tuberculosis; limited usefulness (B. Pollak and A. Hurst), 1951, **65,** *886
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—— preliminary, of abdomen in diagnosis of congenital obstruction of intestine (J. H. Kneidel), 1950, **64,** *430
—— pulmonary changes after cholecystectomy (I. Rudnikoff and C. I. Headland), 1952, **67,** 847 (ab)
—— radiographic; enlargements in diagnostic radiology (D. E. Fletcher and K. A. Rowley), 1952, **68,** 865 (ab)
—— reproducing, at distance via wire or radio transmission (J. Gershon-Cohen and A. G. Cooley), 1949, **61,** *557

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—— results and experiences from mass examinations in Copenhagen, 1946 (M. Holm, S. Holm and K. Winge), 1949, **61,** 428 (ab)
—— roll film cassette with conventional spot-filming fluoroscopic tables for angiocardiography (J. H. Wentworth), 1952, **68,** 856 (ab)
—— routine; manifestations of intracranial disease (instruction course) (P. J. Hodes and J. W. Hope), 1950, **64,** 135
—— routine, of wrist; value in pediatric service (M. G. Peterman, W. B. Frey and J. D. Kaster), 1949, **62,** 912 (ab)
—— serial; emptying of human gallbladder; roentgenological physical demonstration (K. O. Herrmann), 1952, **67,** 672 (ab)
—— serial, to show growth of shaft of human radius and ulna during first 2 years of life (M. K. Ghantus), 1951, **65,** *784
—— significance of triangular hilar shadows in infants and children (R. M. Harvey and R. S. Bromer), 1948, **59,** *845
—— simple method for direct projection of a section of a roentgenogram onto a screen (A. R. Shands, Jr. and F. P. Stone), 1951, **66,** 1025 (ab)
—— skull, convolutional markings in patients with headache (L. M. Davidoff and H. Gass), 1949, **61,** *317
—— skull; study of metopic suture (J. Torgersen), 1950, **64,** 672 (ab)
—— spot; practical compression device for (W. S. Tirman and A. C. Nickel), 1951, **65,** *800
—— stereoscopic, simple inexpensive set of prisms for viewing (C. C. Gass and C. S. Hatchett), 1949, **61,** *715
—— thoracic; comparison of measurements in full term infants (Table III) (J. F. Martin and H. L. Friedell), 1952, **67,** *909
—— transillumination, comparison of fluorescent and incandescent lighting for; American Roentgen Ray Society committee on scientific exhibits (scientific exhibit), 1949, **62,** 741
—— upright, of maternal pelvis at or near term with particular reference to placenta pravia (H. R. Crews, A. O. Hampton and J. P. Moore), 1949, **62,** *707
—— utilization of optimum prime factors in spot roentgenography with special reference to gastrointestinal roentgenography (A. M. McNabb and I. L. Newton), 1948, **60,** *135

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—— anatomic variations of extrahepatic biliary system as seen by cholangiographic studies (N. F. Hickens, Q. B. Coray and B. Franz), 1950, **63,** 774 (ab)
—— anatomy of normal thymus with pneumomediastinum (G. Giannardi), 1949, **62,** 586 (ab)
—— and angiocardiographic aspects of aberrant insertion of pulmonary veins associated with interatrial septal defect and congenital arteriovenous aneurysm of lung (A. Grishman, M. H. Poppel, R. S. Simpson and M. L. Sussman), 1949, **62,** *500
—— apparatus for automatic multiple exposures in angiocardiographic examinations (H. K. Taylor), 1950, **63,** 297 (ab)
—— appearance of pulmonary artery to pulmonary hemodynamics; relationship (R. F. Healey, J. W. Dow, M. C. Sosman and L. Dexter), 1949, **62,** *777
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—— body section, of facial bones and cervical spine (scientific exhibit) (O. S. Cook and W. M. Roy), 1948, **60,** 557
—— breast; simple technic (E. L. Lame and E. P. Pendergrass), 1949, **61,** 439 (ab)
—— Cave's method of fetal cephalometry (T. W. McElin and others), 1952, **67,** 528 (ab)
—— cephalopelvimetry (F. O. Coe), 1952, **67,** *449
—— changes in childhood leukemia; morphologic basis (R. H. Follis, Jr. and E. A. Park), 1952, **68,** 528 (ab)
—— changes in nailed slipped capital femoral epiphysis (A. Klein, R. J. Joplin, J. A. Reidy and J. Hanelin), 1949, **62,** 765 (ab)
—— changes in pulmonary tuberculosis treated with a cobalt complex (W. Glauner), 1951, **66,** 1025 (ab)
—— chest; "round bell image" (H. Metras and P. Thomas), 1948, **59,** 761 (ab)
—— considerations in fractures of neck of femur; review of pertinent aspects of diagnosis and treatment (N. P. Salner and E. P. Pendergrass), 1952, **67,** *732
—— conventional, in diagnosis of cardiovascular anomalies (D. R. Peck and H. M. Wilson), 1950, **64,** 328 (ab)
—— demonstration of alterations of duodenal loop by extrinsic lesions (J. R. Mitchell and W. M. Sennott), 1952, **68,** *764
—— demonstration of glass fragments in the eye (W. E. Roberts), 1951, **66,** *44
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—— detection of coronary arteriosclerosis (J. E. Habbe and H. H. Wright), 1950, **63,** *50
—— diagnosis in intervertebral disc, 1952, **68,** 291 (E)
—— diagnostic procedures in study of large intestine (instruction course), (P. C. Swanson), 1948, **60,** 131 (ab)
—— differentiation between torsion and rotation in fractures of forearm (H. Milch), 1950, **64,** 863 (ab)
—— direct serial, in two planes simultaneously at 0.08 second intervals; physiological aspects of roentgen diagnosis; apparatus and application to angiocardiography (G. Fredzell, J. Lind, E. Ohlson and C. Wegelius), 1950, **63,** *548
—— effect of hyaluronidase on absorption of subcutaneously deposited radiopaque substance (N. Simon and L. Narins), 1948, **61,** *91
—— estimation of mineral content of bone (G. C. Henny), 1951, **65,** 167 (ab)
—— evaluation of Minnigerode sign (P. L. Bruzzone and B. Bellion), 1950, **63,** 937 (ab)
—— evidence of injuries to intervertebral disc by discogram; comparison of normal with abnormal (R. B. Cloward and L. L. Buzaid), 1952, **68,** *552
—— examination, lateral, of thoracic spine (G. Guerreiro), 1950, **64,** 716 (ab)
—— examination of mediastinum, stratigraphy with artificial anterior pneumomediastinum (A. Romanini and M. Spadoni), 1951, **66,** 288 (ab)
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—— films, sensitometry (R. H. Morgan and W. W. Van Allen), 1950, **63,** 627 (ab)
—— gastric; photoelectric timing in (A. M. McNabb, J. D. Roger and I. L. Newton), 1950, **63,** *257
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—— gastrointestinal; utilization of optimum prime factors in spot roentgenography (A. M. McNabb and I. L. Newton), 1948, **60,** *135
—— improved compression band (I. Klein), 1951, **66,** *461
—— intraoral, extended tube technic in (R. M. Appleman), 1949, **62,** *881
—— lateral, of hip joint; accessory equipment (scientific exhibit) (E. F. Merrill, H. B. Crawford and C. F. Bridgman), 1950, **64,** 847
—— localization of pulmonary cavities by modified roentgenographic technic (J. Gordon and R. Brook), 1948, **60,** 704 (ab)
—— magnification; application of technic to study of chronic joint diseases (G. J. van der Plaats and J. Fontaine), 1952, **67,** 347 (ab)
—— mass, for detection of gastric cancer (J. F. Roach, R. D. Sloan and R. H. Morgan), 1949, **61,** *183; equipment design, 1949, **61,** *188
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—— observations in peptic ulcer patients treated by vagotomy (C. A. Priviteri), 1951, **65,** *561
—— of aneurysm of ductus arteriosus; postmortem study (J. H. Kneidel), 1949, **62,** *223
—— of cancer of breast; classified pathological basis for roentgenologic criteria (J. Gershon-Cohen and H. Ingleby), 1952, **68,** *1
—— of chest; technic (A. Zuppinger and E. Seemann), 1952, **68,** 868 (ab)
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—— of segments of lung and the pneumonias of the segments (U. Cocchi), 1952, **68,** 995 (ab)
—— of sternum; importance of accurate examination in breast cancer; Gil-Gil sign; sternal puncture (Gil y Gil), 1952, **68,** 844 (ab)
—— planar, and angiocardiography, simultaneous (B. Lindemann), 1951, **66,** 124 (ab)
—— planar; apparatus (R. Janker), 1951, **66,** 333 (ab)
—— planar; comparison of 1930 with 1947 (N. Macarini), 1951, **66,** 337 (ab)
—— planar in bronchogenic cancer (E. Muntean), 1951, **65,** 974 (ab)
—— planar; method for exact determination of desired level of (W. Seelentag), 1951, **66,** 338 (ab)
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—— prior to operation for imperforate anus (W. J. Norris, T. W. Brophy and D. Brayton), 1950, **63,** 773 (ab)
—— radiopaque materials in roentgenographic interpretation of periodontal lesions; preliminary report (H. M. Berry, Jr.), 1952, **68,** 489 (ab)
—— retrogastric space, roentgenographically considered (H. Lobsenz and R. R. Jauernig), 1950, **63,** 765 (ab)
—— retroperitoneal emphysema (rE); new technic (L. G. Mosca), 1951, **66,** 864 (ab)
—— signs, early and discrete, of unilateral cerebral atrophy (H. Fischgold and J. Metzger), 1952, **68,** 673 (ab)
—— signs in postbulbar ulcer of duodenum (R. P. Ball, A. L. Segal and R. Golden), 1948, **59,** *94
—— spot; utilization of optimum prime factors with special reference to gastrointestinal roentgenography (A. M. McNabb and I. L. Newton), 1948, **60,** *135
—— stereoscopic, essentials (L. E. Etter), 1951, **66,** *248
—— studies of congenital dislocation of hip (instruction course) (I. V. Ponseti), 1951, **66,** 274
—— studies of gastrointestinal tract after section of vagus nerves for peptic ulcer (M. Ritvo and I. A. Shauffer), 1949, **61,** 124 (ab)
—— study of alterations of blood vessels in certain forms of renal pathology (I. Orlandini), 1952, **67,** 528 (ab)
—— study of arteria lusoria (A. Ravelli), 1951, **66,** 318 (ab)
—— study of hip joint in lateral projection (A. J. Williams), 1951, **66,** *459
—— study of pregnancy (instruction course) (W. Snow), 1948, **60,** 124
—— study of soft tissue pathology in and about the knee joint (R. W. Lewis), 1951, **65,** *200
—— synchronous serial, in 2 planes at right angles; table for routine angiocardiography (O. Axen and J. Lind), 1951, **65,** 678 (ab)
—— technic, improved, for temporomandibular articulation (W. J. Updegrave), 1950, **64,** 897 (ab)
—— technic in inversion injury of ankle (O. C. Kestler), 1948, **60,** *499
—— technic for lumbosacral region (H. Lübker), 1952, **68,** 690 (ab)
—— technics for use in radiotherapy (scientific exhibit) (R. J. Bloor, L. M. Fuller and D. DeLella), 1952, **68,** 822
—— the inverted position (G. V. Butler), 1951, **66,** 1025 (ab)
—— tracheal diameter in normal newborn infant (S. W. Donaldson and A. C. Tompsett, Jr.), 1952, **67,** *785
—— training of the blind for dark room technicians (S. Moore), 1949, **62,** *726
—— visual performance during (R. E. Sturm and R. H. Morgan), 1949, **62,** *631
—— visualization of intervertebral discs (scientific exhibit) (J. P. Moore, V. A. Reyes and H. T. Wycis), 1951, **66,** 821
—— wet-film x-ray viewing room (L. H. Garland and M. T. Harris), 1948, **59,** 155 (ab)

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—— role in proposed plan for small film screening of inhabitants of major cities (T. F. Hilbish), 1950, **63,** 439 (ab)
—— trifocal glasses as aid to older roentgenologist (R. Spillman), 1949, **61,** *102

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—— and anatomical appearance of giant cell tumors of bone; comparison (M. Piedmonte and C. Sirtori), 1949, **62,** 770 (ab)
—— and clinical aspects of vertebral column in health and disease (G. Schmorl and H. Junghanns), 1952, **68,** 302 (bk. rev.)
—— and clinical correlation of acute abdominal disease; 100 cases (B. S. Brown), 1950, **63,** *828
—— and surgical reports in ulcers of duodenal bulb (E. Caffaratti), 1950, **64,** 541 (ab)
—— angiocardiography (C. T. Dotter and I. Steinberg), 1952, **68,** 476 (bk. rev.)
—— as means of instruction in anatomy in North American medical schools; survey of methods and equipment at Washington University and 85 other schools of medicine (W. A. Simril, A. J. Stacy and S. F. Thomas), 1950, **63,** *372
—— aspect of certain lesions of bone: neurotrophic or infectious? (J. R. Hodgson, D. G. Pugh and H. H. Young), 1948, **60,** 721 (ab)
—— aspects of congestive heart failure (G. Levene and S. Kaufman), 1952, **68,** 1002 (ab)
—— aspects of head trauma (R. J. Gross), 1950, **64,** *399
—— aspects of intestinal occlusions (S. Levy), 1950, **64,** 333 (ab)
—— Austrian Society of Roentgenology, 1952, **68,** 479 (bk. rev.)
—— cardiac, course at University of Minnesota, 1948, **59,** 897
—— clinical and roentgenologic evaluation of pelvis in obstetrics (H. C. Moloy), 1952, **68,** 665 (bk. rev.)
—— comparative study of aortic vascularization of several species in health and disease (J. Schlichter and R. Harris), 1950, **64,** 534 (ab)
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—— control of ureteral calculi on operating table (E. Newman and L. Narins), 1949, **62,** *113
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—— diagnostic (R. Golden), 1951, **66,** 655 (bk. rev.)
—— diagnostic, color as teaching aid (E. L. Pirkey, J. E. Parker, Jr. and F. W. Shook), 1952, **68,** 169 (ab)
—— diagnostic, nomogram for dose determination (J. Sorrentino and R. Yalow), 1951, **66,** 699 (ab)
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—— Land method of film processing (L. L. Robbins and E. H. Land), 1952, **68,** 865 (ab)
—— meaning of meniscus sign in infiltrating and ulcerating cancers of esophagus (A. Gueret, A. Lambling, M. Cachin and M. Conte), 1951, **65,** 980 (ab)
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—— curvature; changes in scoliotic spine after fusion (I. Ponseti and B. Friedman), 1951, **66,** 999 (ab)
—— curvature; cure of experimental scoliosis by directed growth control (I. W. Nachlas and J. N. Borden), 1951, **66,** 998 (ab)
—— curvature; experimental scoliosis, role of epiphysis (I. W. Nachlas and J. N. Borden), 1951, **66,** 170 (ab)
—— curvature in ankylosing spondylarthritis; osteotomy of lumbar spine (E. H. LaChapelle), 1948, **59,** 360 (ab)
—— curvature in neurofibromatosis (H. A. T. Fairbank), 1951, **65,** 852 (ab)
—— curvature; kyphoscoliosis and chronic cor pulmonale; difficulty of diagnosis (M. O. Marks and H. A. Zimmerman), 1951, **66,** *23
—— curvature; kyphosis, angular dorsolumbar, as unrecognized skeletal sign of congenital myxedema (W. Swoboda), 1951, **65,** 675 (ab)
—— curvature; kyphosis juvenilis Scheuermann—occupational disorder (K. Wassmann), 1952, **68,** 844 (ab)
—— curvature; non-tuberculous thoracic kyphosis with paraplegia (W. H. Gulledge and E. A. Brav), 1951, **66,** 1000 (ab)
—— curvature; posttetanic kyphosis (P. Zürcher), 1950, **63,** 606 (ab)
—— curvature; radiation induces scoliosis (A. M. Arkin, G. T. Pack, N. S. Ransohoff and N. Simon), 1951, **65,** 323 (ab)
—— curvature; radiation scoliosis; experimental study (A. M. Arkin and N. Simon, 1951, **65,** 322 (ab)
—— curvature; respiratory factor in ankylosing spondylitis (F. D. Hart), 1951, **65,** 169 (ab)
—— curvature; roentgen treatment of cervical spondylosis; follow-up examination of 625 patients (J. Lundar), 1951, **66,** *947
—— curvature; scoliosis in anomalies of lumbosacral vertebrae in 550 individuals without symptoms referable to low back (J. D. Southworth and S. R. Bersack), 1950, **64,** *630
—— curvature; scoliosis with paraplegia (S. Kleinberg), 1952, **67,** 317 (ab)
—— curvature; transversectomy for scoliosis (H. L. Wenger), 1951, **66,** 998 (ab)
—— curvature; two curve patterns in idiopathic structural scoliosis (J. I. P. James), 1952, **68,** 156 (ab)
—— cysts, extradural (J. G. DuToit and M. H. Fainsinger), 1949, **62,** 605 (ab)

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—— defects with diastematomyelia; radiological diagnosis (T. N. Cowie), 1952, **67,** 531 (ab)
—— deformity; intrathoracic meningocele and multiple neurofibromatosis (A. W. L. Kessel), 1952, **67,** 169 (ab)
—— degenerative disc disease, backward displacement of fifth lumbar vertebra (G. H. Fletcher), 1948, **60,** 285 (ab)
—— differential spinal block; investigation of intestinal dyskinesia, colonic atony and visceral afferent fibers (S. J. Sarnoff, J. G. Arrowood and W. P. Chapman), 1949, **61,** 130 (ab)
—— dislocations; cervical spondylolisthesis (R. Perlman and L. E. Hawes), 1952, **68,** 520 (ab)
—— dislocations; spondylolisthesis, dysplasia of vertebral arch (J. E. W. Brocher), 1951, **66,** 998 (ab)
—— dislocations; spondylolisthesis; etiology and frequency and its precursors (W. Bailey), 1949, **61,** 437 (ab)
—— dislocations; spondylolisthesis, reversed, vertebral retroposition (H. W. Gillespie), 1952, **67,** 679 (ab)
—— dislocations; spondylolisthesis studies (scientific exhibit) (L. A. Hadley), 1952, **68,** 823
—— dislocation; spondylolisthesis, treatment (J. P. Guri), 1948, **59,** 460 (ab)
—— dislocations; spondylolisthesis with intact neural arch: so-called pseudo-spondylolisthesis (I. Macnab), 1951, **66,** 311 (ab)
—— dorsal; convulsive fractures after electric-shock therapy (I. Meschan, J. B. Scruggs, Jr. and J. D. Calhoun), 1951, **65,** 170 (ab)
—— dorsal; recurrent archnoiditis (J. D. French), 1948, **60,** 581 (ab)
—— echinococcus cysts; roentgen study (F. Viterbo), 1949, **62,** 604 (ab)
—— fractures; complete transection paralysis after (A. Titze), 1951, **66,** 1009 (ab)
—— fractures, dorso-lumbar (E. A. Nicoll), 1950, **64,** 177 (ab)
—— fractures, minor, of cervical laminae simulating ruptured cervical disk; 2 cases (F. V. Kristoff and H. M. Dratz), 1949, **61,** 267 (ab)
—— fractures; "new" sign for recognition of fractures of cervical and upper dorsal spinous processes (P. Zanca and E. A. Lodmell), 1952, **67,** 172 (ab)
—— fractures of dorsal and lumbar vertebrae (O. D. Baab and M. B. Howorth), 1952, **67,** 883 (ab)
—— fractures, resulting from convulsive shock therapy; roentgen evaluation (H. J. Isard), 1952, **63,** *217
—— fusion after resection of intervertebral discs (S. L. Haas), 1948, **59,** 460 (ab)
—— fusion, pseudarthrosis after (W. A. L. Thompson and E. L. Ralston), 1950, **63,** 597 (ab)
—— healing of bilateral fracture of pars interarticularis of lumbar neural arch (M. B. Roche), 1951, **65,** 319 (ab)
—— hemangioblastomas; occurrence in 3 members of a family (W. M. Craig and G. Horrax), 1950, **64,** 341 (ab)
—— hyperextension cervical injuries with normal radiographic appearances; paraplegia in (A. R. Taylor and W. Blackwood), 1949, **61,** 142 (ab)
—— iliac, anterior inferior; osteochondropathy; occurrence of apophysis (E. De Cuveland and F. Heuck), 1952, **68,** 523 (ab)
—— inheritance of spondylitis rhizomelique in the K. family (H. H. Riecker, J. V. V. Neel and A. Test), 1951, **66,** 672 (ab)
—— intervertebral disc; acute traumatic posterior dislocation with paralysis (R. Schneider), 1950, **63,** 792 (ab)

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—— intervertebral discs; absorption of protruded disc tissue (K. Lindblom and G. Hultqvst), 1951, **66,** 141 (ab)
—— intervertebral discs; air and pantopaque myelograms in diagnosis of sciatica (D. Dobrina), 1950, **64,** 342 (ab)
—— intervertebral discs; anatomico-roentgenological study of cervical spine of 20 cadavers (D. E. Morton), 1950, **63,** *523
—— intervertebral discs, cervical; central protrusion involving descending trigeminal tract. (A. R. Elvidge and C. L. Li), 1951, **65,** 168 (ab)
—— intervertebral discs; degeneration and protrusion in spastic paraplegia (J. D. Spillane and G. H. T. Lloyd), 1952, **68,** 529 (ab)
—— intervertebral discs, displaced; correlation of neurologic, orthopedic and roentgenographic findings (F. C. Grant, G. Austin, Z. Friedenber and A. Hansen), 1949, **62,** 304 (ab)
—— intervertebral discs, herniated (W. T. Peyton and D. R. Simmons), 1949, **61,** 143 (ab)
—— intervertebral discs, herniated; air myelography (J. Bücker), 1951, **65,** 318 (ab)
—— intervertebral discs, herniated contralateral to side of symptoms and signs; myelographic verification in 2 cases (J. P. Murphy), 1949, **61,** *77
—— intervertebral discs, herniated; diagnosis and treatment (J. B. Albertengo), 1949, **62,** 305 (ab)
—— intervertebral discs, herniated; fusion after removal (G. A. Caldwell and W. B. Sheppard), 1949, **62,** 605 (ab)
—— intervertebral discs, herniated in lumbar region; abrodil myelography (J. Lange and H. Ødegaard), 1952, **68,** 155 (ab)
—— intervertebral discs, herniated; skiodan myelography (S. Arnell), 1951, **66,** *241
—— intervertebral discs, herniated, producing contralateral symptoms and signs (A. Kaplan), 1950, **64,** 860 (ab)
—— intervertebral discs, herniated; radiographic findings (R. D. Moreton and G. Ehni), 1952, **68,** 690 (ab)
—— intervertebral discs, herniation, syndromes; progressive spinal cord disease (K. J. Strully, S. W. Gross, J. Schwartzman and T. J. C. von Storch), 1952, **67,** 878 (ab)
—— intervertebral discs, herniation, cause of complete block of lumbar spinal canal (B. S. Epstein), 1949, **61,** *775
—— intervertebral disc lesions in children and adolescents (J. A. Key), 1950, **64,** 860 (ab)
—— intervertebral disc lesions; myelography (L. T. Ford and J. A. Key), 1951, **65,** 317 (ab)
—— intervertebral disc lesions; radiological diagnosis (H. W. Gillespie), 1948, **59,** 467 (ab); 1948, **60,** 582 (ab)
—— intervertebral disc; lumbosacral articulation (E. A. Brav, H. A. Molter and W. J. Newcomb), 1949, **62,** 306 (ab)
—— intervertebral disc, myelographic diagnosis of epidural metastases in lumbosacral spinal canal (B. S. Epstein), 1952, **68,** *730
—— intervertebral discs; myelography and disc puncture (instruction course) (K. Lindblom), 1950, **64,** 136
—— intervetebral discs; myelography; discussion (H. Davies, R. G. Reid and G. K. Tutton), 1952, **68,** 519 (ab)
—— intervertebral discs, normal and abnormal; discography (R. B. Cloward and L. L. Buzaid), 1952, **68,** *552

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—— intervertebral discs of lower lumbar spine, contrast medium examination (O. Perey), 1951, **66,** 991 (ab)
—— intervertebral discs, peridurography (K. Albrecht and W. Dressler), 1951, **65,** 318 (ab)
—— intervertebral discs, posterior protrusion, diagnosis; minor myelographic deformities (G. F. Boult, M. K. Kiernan and A. E. Childe), 1951, **66,** *752
—— intervertebral discs, prolapse; lumbar myelography with water soluble contrast (F. Knutsson), 1951, **66,** 991 (ab)
—— intervertebral discs, prolapsed; importance of roentgen diagnosis in operative treatment (A. Hofmann), 1951, **66,** 310 (ab)
—— intervertebral discs, protrusion; criteria for spinal fusion (G. A. Caldwell and W. B. Sheppard), 1949, **62,** 605 (ab)
—— intervertebral discs, protrusion; myelography; horizontal beam examination with the patient prone (D. L. Bartelink), 1949, **62,** 304 (ab)
—— intervertebral discs, protrusion; clinical review of 500 cases treated by excision of protrusion (J. E. A. O'Connell), 1952, **67,** 168 (ab)
—— intervertebral discs, resection, fusion of vertebrae after (S. L. Haas), 1948, **59,** 460 (ab)
—— intervertebral discs, roentgen visualization, 1952, **68,** 291 (E)
—— intervertebral discs, roentgen visualization (scientific exhibit) (R. E. Wise, C. R. Hughes, W. J. Gardner and E. C. Weiford), 1951, **66,** 819
—— intervertebral discs; roentgenographic visualization (scientific exhibit) (J. P. Moore, V. A. Reyes and H. T. Wycis), 1951, **66,** 821
—— intervertebral discs, rupture (J. C. Bell and J. B. Douglas), 1949, **62,** *382
—— intervertebral discs, ruptured; diagnosis, well-leg raising test of Fajersztajn (B. Woodhall and G. J. Hayes), 1951, **66,** 990 (ab)
—— intervertebral discs, ruptured; discrepancies in myelography; statistical survey of 200 operative cases undergoing pantopaque myelography (W. B. Scoville, W. H. Moretz and W. D. Hankins), 1949, **61,** 280 (ab)
—— intervertebral discs, rupture producing pain in shoulder, arm and anterior chest (A. I. Josey), 1952, **68,** 322 (ab)
—— intervertebral discs, ruptured; backache and its relation to (K. Lindblom), 1952, **68,** 691 (ab)
—— intervertebral discs, ruptures, in cervical region (F. V. Kristoff and G. L. Odom), 1949, **61,** 143 (ab)
—— intervertebral discs, surgery; complication: lumbar spinal arachnoiditis (E. A. Smolik and F. P. Nash), 1952, **67,** 878 (ab)
—— intervertebral discs, thoracic, prolapse (F. W. Kroll and E. Reiss), 1952, **67,** 884 (ab)
—— intervertebral discs, x-ray visualization (R. E. Wise and E. C. Weiford), 1952, **67,** 679 (ab)
—— intervertebral foramen studies (scientific exhibit) (L. A. Hadley), 1948, **60,** 552
—— intervertebral joint subluxation, bony impingement and foramen encroachment with nerve root changes (L. A. Hadley), 1951, **65,** *377
—— intraspinal hemangiomas, diagnosis by myelography (E. C. Ernst, Jr. and N. Heilbrun), 1951, **65,** 166 (ab)
—— intraspinal neurofibroma and ? neurofibroma of neck (J. F. Buchan), 1951, **65,** 167 (ab)
—— lateral lumbar roentgenograms; use of filters to control radiation exposure to patient (E. D. Trout, J. P. Kelley and G. A. Cathey), 1952, **67,** *953

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—— laterally placed cervical discs; 12 cases (M. Jefferson), 1951, **66,** 871 (ab)
—— longitudinal growth of the human vertebra, 1951, **65,** 120 (E)
—— lumbar aortography, complication: paralysis; Steno's experiment in man (N. Antoni and E. Lindgren), 1950, **64,** 717 (ab)
—— lumbar neural arch; roentgen study of ossification (G. G. Rowe and M. B. Roche), 1951, **66,** 141 (ab)
—— lumbar; oblique views; roentgen anatomy (L. E. Etter and N. C. Carabello), 1949, **61,** *699
—— lumbosacral, congenital abnormalities (J. R. Armstrong, F. C. Golding, H. W. Gillespie and B. Freedman), 1951, **66,** 310 (ab)
—— lumbosacral, degenerative lesions, diagnosis and management (instruction course) (P. C. Williams), 1952, 68, 131
—— lumbosacral joint in low back pain (L. Kurtz and D. duVigneaud), 1951, **65,** 658 (ab)
—— lumbosacral, pseudarthrosis (M. Cleveland, D. M. Bosworth and F. R. Thompson), 1949, **61,** 144 (ab)
—— meningiomas; diagnosis by myelography (E. H. Wood, Jr.), 1949, **61,** *683
—— myelography (instruction course) (G. M. Peterson), 1951, **66,** 274
—— myelography (instruction course) (H. O. Peterson), 1950, **64,** 137; 1952, **68,** 130
—— myelography and disc puncture; technic and results (K. Lindblom), 1951, **66,** 990 (ab)
—— neurofibroma, benign intraspinal-intrathoracic hour glass tumors with paraplegia (E. Alexander and R. M. James), 1950, **63,** 597 (ab)
—— normal; mechanism of rotation in combination with lateral deviation (A. M. Arkin), 1950, **64,** 716 (ab)
—— osteitis (C. D. Donahue), 1950, **63,** 139 (ab)
—— osteochondritis; etiology (F. H. Kemp and D. C. Wilson), 1949, **61,** 868 (ab)
—— primary acute purulent osteomyelitis (W. Genscher), 1951, **65,** 307 (ab)
—— primary sclerosis of solitary vertebra; 2 cases (G. Lischi), 1949, **62,** 604 (ab)
—— pyogenic osteomyelitis (J. E. Wear, G. J. Baylin and T. L. Martin), 1952, **67,** *90
—— radiation doses received by skin during routine diagnostic x-ray examinations (J. H. Martin), 1949, **61,** 287 (ab)
—— retroposition of lumbar vertebrae (L. Hagelstam), 1950, **64,** 144 (bk. rev.)
—— rheumatism, chronic; critical study (A. P. Lachapele), 1948, **60,** 286 (ab)
—— ring apophysis of (E. M. Bick and J. W. Copel), 1952, **68,** 156 (ab)
—— roentgen diagnosis (A. B. Ferguson), 1950, **63,** 589 (bk. rev.)
—— role of vertebral venous system in metastasis of cancer to spinal column (D. R. Coman and R. P. DeLong), 1952, **67,** 713 (ab)
—— schwannomas; diagnosis by myelography (E. H. Wood, Jr.), 1949, **61,** *683
—— senile ankylosing hyperostosis (J. Forestier and J. Rotes-Querol), 1951, **66,** 1001 (ab)
—— separate neural arch (scientific exhibit) (M. B. Roche and G. G. Rowe), 1951, **66,** 819
—— softening and subluxation of first cervical vertebra and splenomegaly in case of gout; ACTH treatment and eventual postmortem findings (G. D. Kersley, L. Mandel and M. R. Jeffrey), 1951, **61,** 1000 (ab)

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—— solitary plasmocytoma (R. W. Raven and R. A. Willis), 1950, **64,** 177 (ab)
—— spondylitis, ankylosing (W. Lennon and I. Chalmers), 1948, **60,** 856 (ab)
—— spondylitis, ankylosing; diagnostic radiology (G. D. Steven and J. Forestier), 1950, **63,** 598 (ab)
—— spondylitis, ankylosing; early radiological diagnosis (G. L. Rolleston), 1949, **61,** 149 (ab)
—— spondylitis, ankylosing; manubriosternal joint (D. L. Savill), 1952, **67,** 170 (ab)
—— spondylitis, ankylosing; thorax in (F. D. Hart, A. Bogdanovitch and W. D. Nichol), 1951, **65,** 969 (ab)
—— spondylitis, ankylosing; radiotherapy (J. J. Richmond), 1952, **67,** 1029 (ab)
—— spondylitis in brucellosis (S. Di Rienzo), 1951, **66,** 147 (ab)
—— spondylitis; neutral 17-ketosteroids in (M. H. L. Desmarais), 1950, **64,** 709 (ab)
—— spondylitis; pathological ossification and calcification associated with spinal cord injury (D. J. Abramson and S. Kamberg), 1950, **63,** 606 (ab)
—— spondylitis, rheumatoid; incidence and response to therapy among veterans of recent war (E. C. Toone, Jr.), 1949, **62,** 299 (ab)
—— spondylitis, rheumatoid; 1,035 cases (H. F. Polley and C. H. Slocumb), 1949, **61,** 437 (ab)
—— spondylitis, rheumatoid; pediatric problem (M. Lucchesi and O. Lucchesi), 1951, **66,** 1001 (ab)
—— spondylitis, rheumatoid; pelvic and extrapelvic osteopathy; clinical and roentgen study of 90 cases (C. M. Guest and H. G. Jacobson), 1951, **65,** *760
—— spondylitis rhizomelique; inheritance in the K family (H. H. Riecker, J. V. Neel and A. Test), 1951, **66,** 672 (ab)
—— spondylitis, typhoid, with compression of spinal cord (B. B. Spota and C. A. Bardeci), 1951, **66,** 1001 (ab)
—— spondylolysis; incidence of separate neural arch and coincident bone variations; survey of 4,200 skeletons (M. B. Roche and G. G. Rowe), 1952, **67,** 171 (ab)
—— spondylolysis; roentgen-clinical study of 93 personal cases (A. P. Lachapele, C. Lagarde, R. Texier and J. Duluc), 1952, **67,** 680 (ab)
—— spondylosis, cervical; roentgen treatment; follow-up examination of 625 patients (J. Lundar), 1951, **66,** *947
—— spondylosis, cervical; syndrome of Barre-Lieou (M. Schmunis), 1952, **68,** 845 (ab)
—— spondylosis, chronic hypertrophic, of cervical spine with compression of spinal cord and nerve roots (J. A. Epstein and L. M. Davidoff), 1952, **67,** 877 (ab)
—— spondylosis deformans and rheumatism (U. Cocchi), 1951, **66,** 671 (ab)
—— spondylosis; radiotherapy of arthroses and periarthritides in Zurich, 1933-1950, (U. Cocchi), 1952, **68,** 534 (ab)
—— symptomatic hemangioma (H. J. Manning), 1951, **66,** 1008 (ab)
—— thoracic; lateral roentgen examination (G. Guerreiro), 1950, **64,** 716 (ab)
—— thoracic; unilateral tuberculous abscess with roentgen findings of dumb-bell neurofibroma (J. H. Kneidel, L. A. Smith and R. E. Bishop), 1950, **64,** 716 (ab)
—— tomography (J. H. Middlemiss), 1951, **65,** 316 (ab)
—— translumbar arteriography; roentgen interpretation (P. G. Smith, A. T. Evans, E. C. Elsey and B. Felson), 1952, **67,** *183

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—— tuberculosis; analysis of cases treated surgically (D. M. Bosworth and J. Levine), 1950, **63,** 608 (ab)
—— tuberculosis; conservative treatment and factors influencing prognosis (J. Dobson), 1952, **68,** 691 (ab)
—— tuberculosis, Pott's disease (H. E. Burke), 1951, **65,** 970 (ab)
—— tuberculosis, vertebral ankylosis, formation and significance (J. P. Guri), 1948, **59,** 466 (ab)
—— tuberculous disease simulating malignancy in male patient, aged 30 (P. I. Hywel-Davies), 1950, **63,** 608 (ab)
—— tuberculous lesions, multiple (J. L. Feuchtwanger), 1950, **63,** 608 (ab)
—— tumors, myelography; discussion (H. Davies, R. G. Reid and G. K. Tutton), 1952, **68,** 519 (ab)
—— tumors of vertebral column (J. P. Guri), 1949, **62,** 305 (ab)
—— upper cervical vertebrae, non-pathologic variations (L. W. Paul and W. W. Moir), 1949, **62,** *519
—— vertebra; longitudinal growth; contribution to human osteogeny (E. M. Bick and J. W. Copel), 1951, **66,** 999 (ab)
—— vertebral angioma (J. Haguenau and C. Faure), 1951,**65,** 657 (ab)
—— vertebral column and its foundations; roentgen diagnosis (A. Liechti), 1950, **64,** 666 (bk. rev.)
—— vertebral column in health and disease; roentgenologic and clinical aspects (G. Schmorl and H. Junghanns), 1952, **68,** 302 (bk. rev.)
—— vertebral manifestations of malignant lymphoma, myeloid leukemia, and multiple myeloma (R. Mazet, Jr.), 1952, **67,** 680 (ab)
—— vertebral retroposition (reversed spondylolisthesis) (H. W. Gillespie), 1952, **67,** 679 (ab)
Spinelli, V. A.: See **Savitsky, E.,** jt. auth.
Spitz, S., and Higinbotham, N. I.: Osteogenic sarcoma following prophylactic roentgen-ray therapy; report of case, 1952, **68,** 336 (ab)
Spitzer, J. M., Rosenthal, M., Weiner, M., and **Shapiro, S.:** Pulmonary embolism; its incidence at necropsy in relation to peripheral thrombosis, 1951, **65,** 503 (ab)
Spitzer, N.: See **Steinbrocker, O.,** jt. auth.
Splanchnicectomy, peptic ulcer after; 13 cases (S. C. Mason and H. M. Pollard), 1950, **64,** 542 (ab)
Spleen, arteriovenous anastomoses studied by arterial injection and venous recovery of microscopic glass spheres in animals (M. Prinzmetal, E. M. Ornitz, Jr., B. Simkin and H. C. Bergman), 1948, **60,** 857 (ab)
—— calcified cyst; case (M. J. Lustok and G. L. Baum), 1950, **64,** 553 (ab)
—— calcified cyst; experimental occlusion of blood supply (J. D. Martin, Jr., E. L. Zega and N. E. Adamson, Jr.), 1951, **65,** 844 (ab)
—— echinococcus cysts; roentgen picture (P. M. Schlanger and H. Schlanger), 1948, **60,** *337
—— effect of internal irradiation with P32 in mice (S. Warren, J. C. MacMillan and F. J. Dixon), 1952, **66,** 690 (ab)
—— epidermoid cyst; case (M. Radakovich), 1950, **64,** 1074 (ab)
—— hepatolienography (S. F. Thomas, G. W. Henry and H. S. Kaplan), 1952, **68,** 681 (ab)
—— hepatolienography with thorotrast injected 16 and 14 years ago respectively; 2 cases (L. Arrieta Sanchez), 1951, **66,** 662 (ab)
—— portal phlebography in exploration of hepatosplenic diseases (L. Leger, G. Albot and N. Arvay), 1952, **68,** 332 (ab)

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—— portography by transparietal splenic puncture (R. Boulvin, M. Chevalier, P. Gallus and M. Nagel), 1952, **68,** 846 (ab)
—— rupture; roentgen diagnosis (J. Gershon-Cohen, M. B. Hermel, R. N. Byrne and L. S. Bringhurst), 1952, **68,** 515 (ab)
—— splenic-renal anastomosis for treatment of portal hypertension (A. J. Pavlovsky, S. G. Aguirre and J. Schavelzon), 1951, **65,** 164 (ab)
—— transverse displacement with concomitant compression of stomach (N. B. Benchimol), 1952, **68,** 514 (ab)
—— visualization by simple contrast method (S. Zelman), 1952, **67,** 162 (ab)
Splenomegaly and softening and subluxation of first cervical vertebra in gout; ACTH treatment and eventual postmortem findings (G. D. Kersley, L. Mandel and M. R. Jeffrey), 1951, **66,** 1000 (ab)
—— congestive, hemorrhagic tendency in (Banti's syndrome); mechanism and management (L. M. Tocantins), 1949, **61,** 433 (ab)
—— in sickle anemia (B. Ehrenpreis and H. N. Schwinger), 1952, **68,** *30
Spondylarthritis: See Spine, arthritis
Spondylitis: See Spine
Spondololisthesis: See Spine, dislocations
Spondylolysis; Spondylosis: See Spine
Sponge in abdomen; roentgen diagnosis (M. Slater), 1950, **64,** *781
—— radiopaque; roentgen recognition (H. S. Weens and J. V. Rogers, Jr.), 1949, **61,** *706
—— surgical; new design of radiopaque element for (G. Levene), 1952, **68,** 169 (ab)
Spoont, S. I.: See **Fitts, W. T., Jr.,** jt. auth.
Sporer, A., and **Greenberger, M. E.:** Experimental studies on pathogenesis and prognosis of renal tuberculosis, 1951, **65,** 300 (ab)
Sports: See Athletics
Spot scanography for bone measurement (W. K. Mueller and J. M. Higgason), 1949, **61,** *402
—— scanography, modified (J. S. Bell and W. A. L. Thompson), 1950, **63,** *915
Spota, B. B., and **Bardeci, C. A.:** Typhoid spondylitis with compression of the spinal cord; presentation of a case, 1951, **66,** 1001 (ab)
Sprains; injuries of lateral ligaments of ankle; clinical and experimental study (M. H. Leonard), 1950, **63,** 598 (ab)
—— management (J. A. Key and H. E. Conwell), 1952, **68,** 667 (bk. rev.)
Spring, M., and **Kahn, S.:** Non-clostridial gas infection in the diabetic; review of literature and report of 3 cases, 1952, **68,** 333 (ab)
Spritzler, R. J.: See **Prinzmetal, M.,** jt. auth.
Sprue, idiopathic steatorrhorea (A. C. Frazer), 1951, **66,** 303 (ab)
—— small intestinal pattern in (A. Ettinger), 1949, **61,** *658
—— symptomatic (C. J. Bjerkelund), 1950, **64,** 547 (ab)
Sprunt, W. H.: See **Wittenborg, M. H.,** jt. auth.
Spurling, R. G.: Practical neurological diagnosis with special reference to problems of neurosurgery, 1950, **64,** 145 (bk. rev.)
Spurr, C. L., Smith, T. R., and **Jacobson, L. O.:** Chemotherapy in human lymphomas, leukemias, and allied disorders of hemopoietic system, 1949, **62,** 612 (ab)
Sputum, cancer cells as aid in diagnosis of bronchogenic carcinoma (scientific exhibit) (L. B. Woolner and J. R. McDonald), 1948, **60,** 554

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—— cancer cells; study of 150 consecutive cases in which results were positive (L. B. Woolner and J. R. McDonald), 1950, **63,** 441 (ab)
—— cytologic examination in alveolar cell tumors of lung (C. A. Good, J. R. McDonald, O. T. Clagett and E. R. Griffith), 1950, **64,** *14
—— cytologic study in diagnosis of lung cancer (L. B. Woolner and J. R. McDonald), 1949, **62,** 753 (ab)
—— cytologic study in primary lung cancer (S. M. Farber, M. A. Benioff and G. Tobias), 1949, **62,** 446 (ab)
—— cytology; studies on 588 patients with miscellaneous pulmonary lesions (L. B. Woolner and J. R. McDonald), 1951, **66,** 838 (ab)
—— diagnosis of pulmonary adenomatosis with new laboratory findings (W. H. Hatfield and J. E. Hill), 1949, **62,** *525
—— studies on contagiousness of coccidioidomycosis; fate of spherules in sputum exposed out of doors (S. R. Rosenthal and F. H. Elmore), 1950, **64,** 901 (ab)
Spyckerelle, G.: See **Wellens, P.,** jt. auth.
Squid larval tropisms, effect of x-radiation on (R. Rugh), 1951, **66,** 170 (ab)
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—— angioneurotic edema (P. Chevallier and F. Moutier), 1948, **59,** 585 (ab)
—— atrophy of gastric glands produced by beta rays; histological findings in animals (D. M. Douglas, W. R. Ghent and S. Rowlands), 1951, **65,** 679 (ab)
—— bezoar, large; case treated medically (C. H. Brown and R. W. Schneider), 1952, **67,** 866 (ab)
—— calcified leiomyoma; case (T. F. Leigh), 1951, **66,** 497 (ab)

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—— calcified leiomyoma (J. Garbarini and H. P. Price), 1951, **66,** 497 (ab)
—— cancer (H. Taylor), 1949, **61,** 124 (ab)
—— cancer (H. C. Edwards), 1951, **65,** 511 (ab)
—— cancer and gastric ulcer, relationship; panel discussion (G. T. Pack, moderator), 1951, **65,** 832 (ab)
—— cancer and hypertrophic gastritis; relationship (R. P. Barden), 1951, **66,** *915
—— cancer; carcinoids of small intestine and stomach (S. O. Jonsson), 1950, **64,** 549 (ab)
—— cancer cells, exfoliation; abrasive balloon for (F. G. Panico, G. N. Papanicolaou and W. A. Cooper), 1951, **66,** 129 (ab)
—— cancer, control; mass gastric roentgenological surveys (H. E. Hilleboe, M. L. Levin, and P. R. Gerhardt), 1949, **62,** 574
—— cancer; detection by mass roentgenological surveys (S. Moore), 1949, **61,** *470
—— cancer; detection by photofluorographic methods (J. F. Roach, R. D. Sloan and R. H. Morgan), 1949, **61,** *183; equipment design, 1949, **61,** *188
—— cancer; detection by photofluorographic methods; findings (J. F. Roach, R. D. Sloan and R. H. Morgan), 1952, **67,** *68
—— cancer; diagnosis (H. M. Pollard, H. C. Bryant, M. Block and W. C. Hall), 1949, **62,** 758 (ab)
—— cancer; diagnosis by electrogastrography (P. N. Sawyer, J. E. Rhodes and R. Panzer), 1950, **64,** 539 (ab)
—— cancer; diagnosis, cytologic method (R. Graham, H. Ulfelder and T. H. Green), 1949, **61,** 734 (ab)
—— cancer, diagnosis; mucolytic action of papain for cell concentration in (M. Rosenthal and H. F. Traut), 1952, **67,** 710 (ab)
—— cancer, early diagnosis (N. Bolker), 1950, **63,** 770 (ab)
—— cancer, early diagnosis (S. State, D. Gaviser, T. B. Hubbard and O. H. Wangensteen), 1951, **65,** 511 (ab)
—— cancer, early diagnosis (instruction course) (L. Donaldson), 1948, **60,** 128 (ab)
—— cancer, early diagnosis; pathological problems (G. Majno), 1951, **65,** 512 (ab)
—— cancer, early roentgen diagnosis (M. Lüdin), 1951, **66,** 130 (ab)
—— cancer; epidermoid cancer of pyloric antrum (J. R. C. Diaz), 1952, **68,** 314 (ab)
—— cancer; esophageal extension; clinical-surgical importance (A. N. Canonico and O. Eguia), 1951, **65,** 501 (ab)
—— cancer; extension into duodenum and esophagus (M. M. Zinninger and W. T. Collins), 1950, **64,** 544 (ab)
—— cancer; gastroscopic biopsy in differential diagnosis (E. B. Benedict), 1952, **68,** 147 (ab)
—— cancer; gastroscopy (H. W. Rodgers), 1948, **60,** 571 (ab)
—— cancer; identification of regional lymph nodes by means of a vital staining dye (J. Weinberg and E. M. Greaney), 1951, **65,** 834 (ab)
—— cancer; incidence and detection (B. R. Kirklin and J. R. Hodgson), 1948, **60,** *600
—— cancer; incidence and diagnostic procedures for (S. N. Maimon and W. L. Palmer), 1948, **59,** 306 (ab)
—— cancer, irradiation (G. C. Fairchild and A. Shroter), 1948, **60,** 573 (ab)
—— cancer; mortality from and risk in patients with pernicious anemia (J. Mosbech and A. Videbaek), 1951, **66,** 320 (ab)

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—— cancer; mucosal pattern in diagnostic study (G. Steiner), 1950, **63,** 458 (ab)
—— cancer of antrum and prolapsed gastric mucosa; differential roentgen diagnosis (C. Hawley, P. D. Meyer and B. Felson), 1949, **61,** *794
—— cancer of cardia (J. H. Gibbon, Jr., F. F. Allbritten and J. Y. Templeton, III), 1952, **67,** 509 (ab)
—— cancer of cardia (Y. K. Wu and H. H. Loucks), 1952, **68,** 993 (ab)
—— cancer of cardia and esophageal cancer (R. H. Sweet), 1948, **59,** 756 (ab)
—— cancer of cardia detected by laminagraphy (R. L. Friedman and M. G. Wasch), 1952, **67,** *932
—— cancer of cardiac end; radiation therapy (R. Schindler, S. S. Schlosberg and M. Benjamin), 1951, **66,** 324 (ab)
—— cancer of cardiac region; roentgen diagnosis (R. S. Sherman), 1950, **63,** 454 (ab)
—— cancer; osseous metastasis (A. C. Maggi, J. M. Remolar and M. Meeroff), 1951, **66,** 298 (ab)
—— cancer; partial and total gastrectomy; results (E. Landelius), 1950, **63,** 459 (ab)
—— cancer; pathological considerations (M. J. Stewart), 1948, **60,** 572 (ab)
—— cancer, perforated, simulating perforated gastric ulcer (R. Doll), 1950, **64,** 544 (ab)
—— cancer, perforation (F. F. Boyce), 1948, **59,** 306 (ab)
—— cancer; prolonged and obscured development; case (R. A. Gutmann and others), 1950, **63,** 457 (ab)
—— cancer; radiologist's point of view (J. L. A. Grout), 1948, **60,** 571 (ab)
—— cancer; role of internist in detection and early diagnosis (C. L. Brown), 1951, **66,** 298 (ab)
—— cancer, sclerosing, and linitis plastica (K. Røjel), 1950, **64,** 162 (ab)
—— cancer; should total gastrectomy be employed? (F. H. Lahey and S. F. Marshall), 1951, **66,** 497 (ab)
—— cancer simulating lipoma submucosa ventriculi (H. Paaby), 1950, **64,** 161 (ab)
—— cancer, superficial spreading (R. Golden and A. P. Stout), 1948, **59,** *157
—— cancer, supracardiac (F. Moutier and A. Nemours), 1950, **63,** 456 (ab)
—— cancer, surgical aspect (H. Taylor), 1948, **60,** 572 (ab)
—— cancer; surgical treatment; present status (C. A. Moyer and S. L. Clayton), 1951, **66,** 299 (ab)
—— cancer; symposium (J. L. A. Grout; H. W. Rodgers; M. J. Stewart; H. Taylor; G. C. Fairchild and A. Shorter), 1948, **60,** 571-573 (ab)
—— cancer; symptomatology and diagnosis (J. S. LaDue, P. J. Murison, G. McNeer and G. T. Pack), 1950, **64,** 1042 (ab)
—— cancer; total gastrectomy (W. Longmire, Jr.), 1948, **59,** 306 (ab)
—— cancer; treatment; recent advances (H. L. Bockus), 1949, **61,** 429 (ab)
—— cancer; validity of basing prognosis upon Borrmann typing or presence of metastases (G. E. Moore, D. State, R. Hebbel and A. E. Treloar), 1949, **62,** 291 (ab)
—— cancer; x-ray diagnosis problems (S. C. Shanks), 1950, **64,** 690 (ab)
—— carcinoids (R. H. Marshak and A. I. Friedman), 1951, **66,** *200
—— cardia, leiomyoma of esophagus and (R. A. Kenworthy and C. S. Welch), 1950, **63,** 455 (ab)
—— cascade (M. F. Garcia, L. C. De Martini and H. Bürger), 1950, **64,** 157 (ab)

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—— chronic intermittent benign dilatation (R. Jahiel and D. J. Feldman), 1951, **65,** 833 (ab)
—— complaints as distant symptoms in bronchial cancer (M. Wenzl), 1951, **65,** 513 (ab)
—— compression, transverse displacement of spleen with (N. B. Benchimol), 1952, **68,** 514 (ab)
—— configuration in relaxation of diaphragm; differential diagnosis (A. Vogt), 1952, **67,** 150 (ab)
—— congenital obstruction; diagnosis in the newborn (E. V. Baeyer), 1950, **64,** 162 (ab)
—— contents, inhalation of (A. Willcox), 1950, **63,** 448 (ab)
—— cyst formation in relation to (R. C. Shaw), 1952, **68,** 683 (ab)
—— cyst of mediastinum (A. Ehler and S. Atwell), 1949, **62,** 750 (ab)
—— deforming antritis secondary to ulcer about incisura angularis of the lesser curvature (F. Warmoes), 1950, **64,** 543 (ab)
—— diaphragmatic herniation with cancer (M. Dorfman), 1951, **66,** 301 (ab)
—— diffuse polyposis; total gastrectomy (R. A. Wise), 1951, **65,** 981 (ab)
—— diseases; military service connected disability in (H. Kalk), 1952, **67,** 521 (ab)
—— distension, acute; pathophysiology of a peculiar syndrome (E. Ask-Upmark and A. Frantzell), 1950, **64,** 689 (ab)
—— diverticula (W. Walters), 1948, **59,** 585 (ab)
—— diverticula (G. Rosenburg), 1951, **66,** 665 (ab)
—— diverticula, highly situated (H. R. Beck), 1951, **66,** 859 (ab)
—— diverticula; 30 cases and review of literature (C. H. Brown, R. P. Bissonnette and R. D. Albee), 1950 **64,** 159 (ab)
—— diverticula; 31 cases (R. W. Eells and W. A. Simril), 1952, **68,** *8
—— diverticula; radiological aspects (R. Fawcitt), 1950, **64,** 335 (ab)
—— double contrast roentgenograms (E. L. Pirkey), 1949, **62,** *70
—— emptying; pyloric obstruction more accurately demonstrated by food-barium mixture (V. W. Archer and G. Cooper, Jr.) 1948, **60,** *593
—— eosinophilic granuloma of (R. J. Booher and R. N. Grant), 1952, **68,** 149 (ab)
—— examination by "oil contrast" (C. Gianturco), 1951, **66,** 299 (ab)
—— examination; photofluorographic methods (R. B. Engelstad and S. Rennaes), 1950, **64,** 897 (ab)
—— examination; simultaneous radiographic and gastroscopic (C. L. Ould and M. E. Dailey), 1949, **61,** 277 (ab)
—— fibromuscular atresia of prepyloric antrum and its pathological explanation (G. Albot and F. Magnier), 1950, **64,** 543 (ab)
—— fistula, gastro-bronchial (K. Liavaag), 1950, **63,** 450 (ab)
—— fistula, gastroduodenale (S. Bissylas), 1952, **68,** 512 (ab)
—— fistula, gastrojejunocolic (H. H. Faxon and W. G. Schoch, Jr.), 1949, **62,** 758 (ab)
—— fistula, gastropericardial, after transthoracic esophagectomy (C. J. Schein, G. L. Judson and A. C. Hemphill), 1950, **64,** 537 (ab)
—— fistula, neonatal gastrocolic (N. K. Pein), 1949, **61,** 124 (ab)
—— foreign bodies, silicobezoar (O. E. Benell), 1952, **68,** *639
—— fundus, lesions; controlled intragastric pressure for roentgen diagnosis (E. L. Pirkey and others), 1952, **67,** *217

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—— fundus; roentgen examination (M. H. Moreau), 1952, **67,** 523 (ab)
—— fundus, lesions; diagnosis (scientific exhibit) (W. H. Smith, E. S. Reed and E. L. Pirkey), 1949, **62,** 738
—— gastric double contrast (C. Gianturco), 1952, **67,** 1014 (ab)
—— gastric vascular shunts, 1949, **61,** 561 (E)
—— gastritis, antral, and prolapsed gastric mucosa; differential roentgen diagnosis (C. Hawley, P. D. Meyer and B. Felson), 1949, **61,** *794
—— gastritis, corrosive; clinical and experimental study (L. M. Bosch del Marco), 1950, **64,** 157 (ab)
—— gastritis, emphysematous (G. W. Henry), 1952, **68,** *15
—— gastritis; gastroscopic biopsy in differential diagnosis of carcinoma and (E. B. Benedict), 1952, **68,** 147 (ab)
—— gastritis, generalized giant hypertrophic, simulating neoplasm; differential diagnosis and report of case (J. P. Bartlett and W. E. Adams), 1951, **65,** 156 (ab)
—— gastritis, giant hypertrophic, simulating malignant disease (R. T. Grime and R. Whitehead), 1952, **68,** 684 (ab)
—— gastritis, hypertrophic; significance of roentgen evidence (R. P. Barden), 1951, **66,** *915
—— gastritis, hypertrophic, simulating neoplasm (J. Bank, A. E. Pearce and J. H. Gilmore), 1948, **59,** 451 (ab)
—— gastritis, giant hypertrophic; survey of literature and record of case treated surgically (W. R. Forrester-Wood), 1950, **64,** 693 (ab)
—— gastritis, phlegmonous (B. Miller and H. Nushan), 1952, **67,** *781
—— gastritis, post-irradiation; gastroscopic picture (E. D. Palmer), 1948, **60,** *360
—— gastritis, prepyloric local (J. B. Haworth and N. B. Rawls), 1950, **64,** 332 (ab)
—— gastritis; roentgen signs (L. Walk), 1948, **60,** *77
—— gastritis, with double contrast; roentgen study, F. F. Ruzicka, Jr. and L. G. Rigler), 1952, **67,** 155 (ab)
—— gastroduodenal intussusception (R. H. Marshak, J. Lifsay and S. Brahms), 1951, **66,** *87
—— gastroduodenal ulcer, perforating (A. Seuc Chiu), 1951, **66,** 131 (ab)
—— gastroileostomy (C. L. Boice), 1951, **66,** *601
—— gastrojejunocolic fistulas; postoperative complications in 19 cases (A. W. Skoog-Smith, G. Jaspin and J. V. Sullivan), 1951, **66,** 497 (ab)
—— gastroscopic observations in pernicious anemia (L. L. Hardt, S. O. Schwartz and F. Steigmann), 1948, **60,** 717 (ab)
—— gastroscopy, interstitial emphysema after; relation to syndrome of pneumoperitoneum and generalized emphysema with no evident perforation (S. M. Fierst, H. M. Robinson and L. Lasagna), 1952, **67,** 527 (ab)
—— gastrostomy for malignant disease; evaluation (R. C. Clay), 1950, **64,** 690 (ab)
—— herniation, early, at esophageal hiatus; diagnosis (A. S. Johnstone), 1952, **68,** 148 (ab)
—— herniation in differential diagnosis of retrocardiac shadows (S. S. Nemec), 1949, **62,** 286 (ab)
—— hiatus hernia, as source of gastrointestinal bleeding (E. A. Mendelsohn), 1948, **59,** 450 (ab)
—— Hodgin's disease (L. M. Bond and J. J. Pileggi), 1952, **67,** *592
—— hourglass, caused by annular muscular hypertrophy (C. M. Schroeder), 1950, **64,** 331 (ab)

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—— human; arteries, veins and arteriovenous anastomoses in (T. E. Barlow, F. H. Bentley and D. N. Walder), 1952, **68,** 1014 (ab)
—— in femoral hernia (P. Cave), 1949, **62,** 591 (ab)
—— induced collapse; roentgen study (F. G. Capurro and J. C. Pecantet), 1952, **68,** 833 (ab)
—— inversion with esophageal hiatus hernia (J. H. Marks), 1948, **60,** *63
—— inversion with eventration of diaphragm (G. A. Peck and G. W. Weber), 1952, **67,** *63
—— isolated; secretory studies (L. R. Dragstedt and others), 1950, **64,** 900 (ab)
—— leiomyosarcoma, with excavation of center of tumor (J. H. Marks), 1952, **67,** *76
—— lesions, serum antiproteolytic reaction in (E. E. Cliffton and L. E. Young), 1951, **65,** 834 (ab)
—— linitis plastica and sclerosing carcinoma (K. Røjel), 1950, **64,** 162 (ab)
—— mesenchymal tumors (C. J. France and O. A. Brines), 1951, **66,** 665 (ab)
—— mobile mid-gastric polyp (G. Buzzi), 1951, **66,** 129 (ab)
—— motility, cortical inhibition (B. P. Babkin and T. J. Speakman), 1950, **64,** 899 (ab)
—— motility; effect of some common gastric drugs (P. Brummer and A. Bundul), 1949, **62,** 153 (ab)
—— motor and secretory activity, duodenal mechanism (J. Gershon-Cohen), 1949, **61,** 277 (ab)
—— mucosa and heterotopic pancreatis tissue in Meckel's diverticulum (R. Bigelow and D. E. Clark), 1950, **64,** 696 (ab)
—— mucosa; asymptomatic prolapse (E. J. Levin and B. Felson), 1952, **68,** 512 (ab)
—— mucosa cells measured by x-ray absorption (A. Engström and D. Glick), 1951, **65,** 344 (ab)
—— mucosa; life situation and emotional response to peptic ulcer (S. Wolf), 1950, **64,** 159 (ab)
—— mucosa; oil contrast examination (C. Gianturco), 1949, **62,** *564
—— mucosa, motility; experimental studies in dogs (F. P. Brooks, L. W. Stevens, E. P. Pendergrass and F. Bassols), 1948, **59,** *482
—— mucosa, prolapse (I. A. Ferguson), 1949, **62,** 153 (ab)
—— mucosa, prolapse (A. M. Cove and W. C. Curphey), 1949, **62,** 757 (ab)
—— mucosa, prolapse (M. F. Garcia and J. N. Da Costa), 1952, **67,** 524 (ab)
—— mucosa prolapse into duodenal bulb (O. Noguera, J. E. Barrague and M. J. Caussi), 1952, **67,** 523 (ab)
—— mucosa; prolapse into duodenal bulb; problem for clarification (M. Feldman), 1952, **68,** 512 (ab)
—— mucosa, prolapse into duodenum (R. Köhler), 1950, **64,** 692 (ab)
—— mucosa, prolapse into duodenum (C. Reussi, H. D. Gozzi and M. H. Rigoli), 1952, **67,** 524 (ab)
—— mucosa, prolapse into duodenum (I. W. Kaplan and R. M. Shepard), 1952, **68,** 513 (ab)
—— mucosa, prolapse into pylorus and duodenal bulb (E. A. Zimmer), 1951, **65,** 649 (ab)
—— mucosa, prolapse through pyloric canal into duodenum (I. H. Manning, Jr. and G. P. Highsmith), 1948, **60,** 714 (ab)
—— mucosa, prolapse through pylorus; syndrome often unrecognized (P. Wellens and G. Spyckerelle), 1950, **64,** 332 (ab)
—— mucosa, prolapse; 22 cases (H. G. Rudner), 1951, **65,** 984 (ab)
—— mucosa, prolapsed into duodenum; etiology and pathogenesis (A. Melamed), 1950, **64,** 693 (ab)

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—— mucosa, prolapsed into duodenum; radiographic diagnosis; clinical significance and treatment (W. G. Scott), 1948, **59,** 451 (ab)
—— mucosa, prolapsed; roentgen diagnosis (C. Hawley, P. D. Meyer and B. Felson), 1949, **61,** *784
—— mucosal deformities of greater curvature (M. Feldman), 1949, **61,** 429 (ab)
—— mucosal pattern (instruction course) (W. E. Baensch), 1949, **62,** 142
—— mucous membrane; enlarged rugae; correlation of roentgenologic, gastroscopic, pathologic and clinical findings; 41 cases (W. W. Baughan, J. U. Gunter and E. A. Erwin, Jr.), 1952, **67,** 865 (ab)
—— mucous membrane; neurovascular mechanism (H. B. Benjamin), 1952, **68,** 833 (ab)
—— neoplasms, unsuspected; photofluorography in detection (scientific exhibit) (R. Wigh and P. C. Swenson), 1951, **66,** 822
—— neurilemmoma (J. A. Baty), 1952, **68,** 684 (ab)
—— neurogenic tumor (S. D. Weeder and J. W. Stayman, Jr.), 1951, **66,** 666 (ab)
—— neurogenic tumors (J. P. West and G. Knox), 1950, **63,** 456 (ab)
—— normal and operated; study using very warm opaque meal (L. Dalla Bernardina), 1950, **64,** 543 (ab)
—— of normal infants, teleradiographic study (A. Jaubert de Beaujeu and M. Caruana), 1951, **65,** 288 (bk. rev.)
—— peptic ulcer; modern criteria for diagnosis and attempted diagnosis of healing (D. L. Wilbur and M. S. M. Watts), 1950, **63,** 770 (ab)
—— perigastric adhesions and bands involving pyloric antrum; diagnostic enigma (E. L. Jenkinson, W. H. Pfisterer, R. C. Norman and K. K. Latteier), 1952, **67,** *210
—— physiological chemistry and clinical significance of urease and urea (O. FitzGerald and P. Murphy), 1950, **64,** 157 (ab)
—— polypoid gastritis (E. Eibach), 1950, **64,** 1042 (ab)
—— postoperative; functional complaint confronting gastroenterologist (H. L. Bockus), 1951, **65,** *863
—— prepyloric spasm simulating gastric malignancy (L. A. Cohn and R. L. Gold), 1950, **63,** 458 (ab)
—— primary Hodgkin's disease; diagnosis (E. L. Pirkey and S. M. Roberts), 1950, **63,** 456 (ab)
—— plasma cell tumor; case (N. Ende and others), 1951, **66,** 300 (ab)
—— procurement and critical appraisal of width diameter of midline retrogastric soft tissues (M. H. Poppel, A. Sheinmel and E. Mednick), 1949, **61,** *56
—— protrusions through esophageal hiatus (M. Brombart, J. Goutkine and Y. Laurent), 1950, **64,** 1030 (ab)
—— pyloric position; roentgen deformities with absence of surgical and pathological findings (E. L. Jenkinson and F. J. Hamernik), 1950, **63,** 131 (ab)
—— qualitative anatomical diagnosis in distal portion of stomach and duodenal bulb on basis of roentgen examination (W. Kronen), 1952, **68,** 315 (ab)
—— resected; roentgen examination with protein and fat barium particles (A. Lab), 1952, **68,** 833 (ab)
—— resection, subtotal; afferent loop studies after (S. H. Lorber and H. Shay), 1952, **68,** 683 (ab)
—— residue in cholecystography (C. Gottlieb and S. L. Beranbaum), 1951, **66,** 662 (ab)
—— reticulum cell sarcoma (I. I. Cash and A. E. Rappoport), 1948, **59,** 451 (ab)
—— retrogastric space, roentgenographically considered (H. Lobsenz and R. R. Jauernig), 1950, **63,** 765 (ab)

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—— retrograde jejunogastric intussusception (E. H. Lawson and D. L. Whitener), 1950, **64,** 1047 (ab)
—— right sided, associated with eventration of diaphragm simulating hydropneumothorax (H. R. Nayer), 1950, **64,** *50
—— roentgen examination in symptomless persons (L. G. Rigler), 1949, **62,** 449 (ab)
—— roentgenography; photoelectric timing (A. M. McNabb, J. D. Roger and I. L. Newton), 1950, **63,** *257
—— roentgenological changes after vagotomy (F. Isaac, R. E. Ottoman and J. A. Weinberg), 1950, **63,** *68
—— sarcoma (S. F. Marshall and W. A. Meissner), 1951, **65,** 982 (ab)
—— sarcoma and carcinoma, distinctions (A. Bassler and A. G. Peters), 1949, **62,** 592 (ab)
—— sarcoma; roentgen diagnosis and radiation treatment (G. Forssman), 1948, **59,** 155 (ab)
—— sarcomas; review with reference to gross pathology and gastroscopic manifestations (E. D. Palmer), 1951, **65,** 834 (ab)
—— schwannoma; 2 cases (P. Anex), 1951, **66,** 129 (ab)
—— secretion and acidity in peptic ulcer; effect of tetraethyl ammonium chloride (J. M. Ferrer, Jr.), 1949, **61,** 127 (ab)
—— secretion and motility; modification by tetraethylammonium (M. R. Castex, A. L. C. Maggi and M. Meeroff), 1951, **65,** 338 (ab)
—— simple ulcer and cancer (B. F. Swynnerton and S. C. Truelove), 1952, **68,** 685 (ab)
—— spot roentgenography; adjustable pressure cone (A. M. McNabb, J. D. Roger and I. L. Newton), 1950, **63,** *411
—— submucosal lipoma; case presenting an interesting roentgen sign (G. J. Culver and A. Dobrak), 1950, **64,** *938
—— surgery; clinical study of early post-gastrorectomy syndrome (W. M. Capper and T. J. Butler), 1952, **68,** 147 (ab)
—— surgery; dumping syndrome; operation for its prevention (T. O'Neill), 1951, **65,** 843 (ab)
—— surgery; effect on small intestine; roentgen study (G. DeBusscher), 1951, **65,** 837 (ab)
—— surgery; experimental study of 70 cases showing early post-gastrectomy syndrome (T. J. Butler and W. M. Capper), 1952, **67,** 527 (ab)
—— surgery for gastric ulcer; results (S. F. Marshall and M. L. Welch), 1949, **62,** 289 (ab)
—— surgery; partial and total gastrectomy in stomach cancer; results (E. Landelius), 1950, **63,** 459 (ab)
—— surgery; partial gastrectomy for ulcer; preliminary report on advantages of a small stoma (H. W. Porter and Z. B. Clanan), 1950, **63,** 459 (ab)
—— surgery; subtotal gastrectomy for duodenal and gastric ulcer; results (F. B. St. John, H. D. Harvey, J. M. Ferrer and R. W. Sengstaken), 1949, **62,** 290 (ab)
—— surgery, total gastrectomy for stomach cancer (W. Longmire, Jr.), 1948, **59,** 306 (ab)
—— surgery, total gastrectomy in diffuse polyposis of stomach (R. A. Wise), 1951, **65,** 981 (ab)
—— surgery; total gastrectomy; should it be employed in early cancer of stomach? Experience with 139 total gastrectomies (F. H. Lahey and S. F. Marshall), 1951, **66,** 497 (ab)
—— surgery; upper gastrointestinal examination after (H. R. Zatzkin and A. Riera), 1951, **66,** 300 (ab)
—— thoracic, caused by esophageal hiatus hernia and congenital short esophagus (F. J. Putney), 1948, **60,** *566

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—— thoracic, partial, short esophagus and peptic ulceration, association of gastric cardia with (D. W. Smithers), 1951, **65,** 650 (ab)
—— thoracic, short esophagus and hiatus hernia; complications and surgical treatment (D. B. Effler and E. N. Collins), 1952, **68,** 493 (ab)
—— tuberculosis (H. W. Ostrum and W. Serber), 1948, **60,** *315
—— tuberculosis and the stomach in tuberculosis (E. D. Palmer), 1950, **64,** 691 (ab)
—— tuberculosis; case (H. R. Morris), 1948, **59,** *682
—— tuberculosis; study (H. Toole and J. Propatorides), 1950, **64,** 158 (ab)
—— tumors, benign (A. L. C. Maggi, M. Meeroff and A. Kuperman), 1952, **67,** 156 (ab)
—— tumors, benign, and prolapsed gastric mucosa; differential roentgen diagnosis (C. Hawley, P. D. Meyer and B. Felson), 1949, **61,** *794
—— tumors, benign; lipoma submucosa ventriculi simulating stomach cancer (H. Paaby), 1950, **64,** 161 (ab)
—— tumors; differential diagnosis (scientific exhibit) (S. Brown and A. Fine), 1949, **62,** 739
—— tumors, primary; histologic characteristics and growth behavior (W. D. Stovall), 1951, **66,** 299 (ab)
—— tumors, surgical treatment; present status (C. A. Moyer and S. L. Clayton), 1951, **66,** 299 (ab)
—— tumors of upper third (M. Malenchini and J. Roca), 1948, **60,** *323
—— ulcer and gastric cancer, relationship; panel discussion (G. T. Pack, moderator), 1951, **65,** 832 (ab)
—— ulcer and gastric retention (F. Huber and C. G. Huntington), 1948, **60,** *80
—— ulcer, benign; accuracy of roentgen diagnosis (C. A. Stevenson and C. W. Yates), 1950, **63,** 770 (ab)
—— ulcer, benign; analysis of x-ray findings (W. A. Russell, S. Weintraub and H. L. Temple), 1950, **63,** 131 (ab)
—— ulcer, benign and malignant (W. L. Palmer), 1951, **66,** 298 (ab)
—— ulcer, benign and malignant; clinical and pathological studies (O. F. Grimes and H. G. Bell), 1951, **65,** 156 (ab)
—— ulcer, benign; conservatism in surgical treatment (F. B. Wilkins, J. A. Weinberg and J. M. Farris), 1952, **67,** 866 (ab)
—— ulcer, benign, of greater curvature (R. L. Friedman and B. S. Epstein), 1951, **66,** 497 (ab)
—— ulcer, chronic; observations on blood supply of human gastric mucosa with note on arteriovenous shunt (F. S. A. Doran), 1951, **66,** 859 (ab)
—— ulcer; diagnostic studies in 100 cases (J. A. Hagans and M. C. McCord), 1952, **68,** 684 (ab)
—— ulcer in childhood (M. D. Ingram, Jr.), 1950, **64,** *765
—— ulcer in childhood (J. F. Martin and H. F. Saunders), 1951, **66,** 496 (ab)
—— ulcer in German prisoners of war in Russia (G. Paschlau), 1952, **68,** 1014 (ab)
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—— roentgenograms; study of 24,615 separation films (B. J. O'Loughlin), 1949, **61,** 275 (ab)
—— roentgenography; rib notching; 2 unusual cases (M. C. McCord and F. A. Bavendam), 1952, **67,** *405
—— roentgenography: "round bell image" (H. Metras and P. Thomas), 1948, **59,** 761 (ab)
—— roentgenography, technic (A. Zuppinger and E. Seemann), 1952, **68,** 868 (ab)
—— roentgenologic manifestations of amebiasis of liver with concomitant finding in the chest (S. Schorr and A. Schwartz), 1951, **66,** *546
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—— roentgen ray surveys in general hospitals; critical review (K. R. Boucot, D. A. Cooper, E. W. Marshall and F. M. Richardson), 1950, **64,** 317 (ab)

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—— routine antenatal chest x-ray findings in patients drawn from a currently surveyed population (H. J. Bickerstaff, G. W. Comstock and M. H. Burke), 1951, **66,** 851 (ab)
—— routine photofluorography; analysis of 10 years' experience (instruction course) (F. J. Hodges and J. F. Holt), 1951, **66,** 270
—— short esophagus with thoracic stomach and hiatus hernia; complications and surgical treatment (D. B. Effler and E. N. Collins), 1952, **68,** 493 (ab)
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—— single, circumscribed, intrathoracic densities (H. Abeles and D. Ehrlich), 1951, **66,** 855 (ab)
—— solitary intrathoracic neurofibroma (A. S. W. Touroff and S. O. Sapin), 1950, **64,** 325 (ab)
—— spontaneous cold abscesses of chest wall and Pott's disease; pathogenesis of certain forms of extrapulmonary tuberculosis (H. E. Burke), 1951, **65,** 970 (ab)
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—— synovial sarcoma (R. B. Eisenberg and R. C. Horn), 1950, **64,** 1028 (ab)
—— thoracic aorta, rupture (C. Gottlieb and W. K. Peck), 1950, **63,** *63
—— thoracic aortography (J. A. Helmsworth, J. McGuire and B. Felson), 1950, **64,** *200
—— thoracic cage ("thoracic waist"); horizontal bipartition (F. Polgar), 1949, **61,** *637
—— thoracic stomach produced by esophageal hiatus hernia and congenital short esophagus (F. J. Putney), 1948, **60,** 566 (ab)
—— "thoracic waist" (F. Polgar), 1950, **63,** *345
—— tilt table attachment for chest planigraphy in upright and recumbent positions (I. J. Kane), 1951, **66,** 699 (ab)
—— traumatic chylothorax; roentgen aspects of this problem (R. M. Lowman, J. Hoogerhyde, L. L. Waters and C. Grant), 1951, **65,** *529
—— tumors; angiocardiography (A. G. Weiss and others), 1950, **64,** 323 (ab)
—— tumors, intrathoracic neurogenic (L. Efskind and K. Liavaag), 1951, **65,** 973 (ab)
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—— tumors, primary intrathoracic neurogenic (J. T. Godwin and others), 1951, **66,** 288 (ab)
—— tumors, solitary; differential diagnosis in 50 proved cases (R. K. Arbuckle), 1949, **62,** *52
—— value of roentgenology in prognosis of minimal tuberculosis (A. L. Cochrane, H. W. Campbell and S. C. Stein), 1949, **61,** *153
—— vertical tomography (D. W. Crombie and P. M. Andrus), 1951, **66,** 289 (ab)

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—— dioxide, colloidal; faulty elimination when used as roentgen contrast medium (M. E. Jörg and J. A. Aguirre), 1952, **67,** 324 (ab)
—— dioxide; late effects in man (C. Cassel, J. M. Ruffin, R. J. Reeves and L. D. Stoddard), 1952, **67,** 1015 (ab)
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—— X distribution in growing organism and influence on epiphyseal growth in young rabbits (W. Koch), 1952, **67,** 349 (ab)
—— X; late injuries from (I. Zadek), 1951, **66,** 1030 (ab)
—— X treatment of hemangiomatous nevi (R. E. Bowers), 1951, **66,** 680 (ab)
—— X treatment of skin cancer, keratoses; radiation sequelae (scientific exhibit) (J. J. Shers and W. E. Howes), 1950, **64,** 849
—— X treatment of skin epithelioma, keratoses and delayed radiation changes (J. J. Shers and W. E. Howes), 1951, **66,** 1022 (ab)
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—— **Nokes, J. M.,** and **Brown, D. J., Jr.:** Evaluation of irradiation therapy for nonmalignant uterine bleeding at the University of Virginia Hospital, 1951, **66,** 1018 (ab)
Thorotrast, clinical and pathologic anatomic contributions to question of injury from (W. Schmidt, A. Schulte and H. Lapp), 1951, **65,** 660 (ab)
—— deposition in gallbladder wall; roentgen demonstration (E. L. Pirkey and others), 1951, **66,** *208
—— hepatolienography, injected 16 and 14 years ago respectively; 2 cases (L. Arrieta Sanchez), 1951, **66,** 662 (ab)
—— in experimental neurography (I. M. Tarlov, D. Berman and J. Epstein), 1950, **64,** *976
—— injected; attempt at excretion in rabbits by BAL (B. E. W. Nordenström-Blomqvist), 1951, **66,** 1029 (ab)
—— injection, bilateral alveolar lung cancer associated with (S. Abrahamson, M. H. O'Conner and M. L. Abrahamson), 1951, **65,** 504 (ab)
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—— organo-localization following mobilization of colloid thorium dioxide (M. Lenzi and G. Magri), 1951, **65,** 339 (ab)
—— storage following direct pyelography (U. Cocchi), 1951, **65,** 163 (ab)
—— treatment of localized damage from (A. Büttner and K. Paul), 1951, **66,** 1011 (ab)
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Threefoot, S. A.: See **Ray, C. T.,** jt. auth.
Throat: See also Larynx; Pharynx; Tonsils; etc.
—— cancer, supervoltage roentgen therapy (M. D. Schulz), 1951, **66,** 152 (ab)
Thromboangitis of pulmonary vessels with aneurysm of pulmonary artery (L. E. Thompson and B. Gerstl), 1948, **59,** 584 (ab)
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Thrombophlebitis, recurrent, in obscure malignant tumor of lung (M. M. Fisher, L. A. Hochberg and N. D. Wilensky), 1952, **68,** 680 (ab)
—— **roentgen radiation (J. S. Bouslog), 1950, 63, 287** (ab)
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—— acute; roentgen examination (J. Frimann-Dahl), 1951, **65,** 320 (ab)
—— and hemiplegia of internal carotid system (A. R. Elvidge and A. Werner), 1952, **68,** 1000 (ab)
—— and venous phlebitis (D. Prat and A. G. Guelfi), 1951, **65,** 320 (ab)
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—— aortic and iliac (E. P. Villafane), 1951, **65,** 662 (ab)
—— aortic, Leriche syndrome (D. Shapiro), 1952, **67,** *891
—— arterial, and arteriosclerosis in lower limb; roentgen study (A. Lindbom), 1951, **66,** 655 (bk. rev.)
—— arterial, of abdominal aorta; translumbar arteriography (P. G. Smith, A. T. Evans, E. C. Elsey and B. Felson), 1952, **67,** *190
—— arteriosclerotic; reconstruction of femoral artery for (W. D. Holden), 1950, **64,** 874 (ab)
—— cerebral, arteriography (R. E. Wise, C. R. Hughes and J. R. Hannan), 1950, **64,** *250
—— chronic aorto-iliac (Leriche's syndrome); aortographic examination (E. S. Mazzei, F. Schaposnik, R. R. Reca and D. Grinfeld), 1951, **66,** 148 (ab)
—— coronary, acute, occurring in case of perforating lesser curvature ulcer undergoing malignant changes (M. E. Sachs), 1949, **62,** 754 (ab)
—— deliberate, of intracranial arterial aneurysm by partial occlusion of carotid artery with arteriographic control (A. Ecker and P. Riemenschneider), 1952, **67,** 504 (ab)
—— influence on lesser circulation (L. R. Sante), 1949, **61,** *11
—— intra-auricular; diagnosis in the living (J. Arendt and L. Cardon), 1950, **64,** 530 (ab)
—— ligature of vena cava; danger in thrombo-embolic disease (C. Olivier and G. Sabatier), 1952, **67,** 1026 (ab)
—— mesenteric; roentgen examination (J. Frimann-Dahl), 1950, **64,** *610
—— multiple venous, and visceral carcinoma (A. W. Pryde), 1950, **64,** 550 (ab)
—— of carotid arteries; angiographic aspects and some therapeutic considerations (A. Lima), 1950, **63,** 437 (ab)
—— of dural venous sinuses as cause of "pseudotumor cerebri" (B. S. Ray and H. S. Dunbar), 1952, **68,** 488 (ab)
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—— of internal carotid artery (T. G. I. James), 1950, **64,** 313 (ab)
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—— of terminal aortic bifurcation; clinical and aortographic study; value of multiple films (G. Bonte and J. Desruelles), 1952, **67,** 318 (ab)
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—— post-thrombotic varices; results of phlebography and radical operative treatment (P. Linde), 1950, **64,** 179 (ab)
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—— thrombotic obliteration of aortic bifurcation: Leriche syndrome 1950, **64,** 496 (E)
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—— cystic tumor of thymic region and myasthenia gravis; case in which tumor was removed (C. B. Fulghum), 1950, **64,** 1029 (ab)
—— effect of internal irradiation with P32 (in mice) (S. Warren, J. C. MacMillan and F. J. Dixon), 1952, **66,** 690 (ab)
—— enlargement; significance of triangular hilar shadows (R. M. Harvey and R. S. Bromer), 1948, **59,** *849
—— exploration; artificial pneumomediastinum (J. A. Soto), 1952, **67,** 513 (ab)
—— gland, radiographic appearance; sail-like triangular projection from the mediastinum (F. H. Kemp, H. M. C. Morley and E. Emrys-Roberts), 1950, **63,** 761 (ab)
—— normal; roentgenographic anatomy with pneumomediastinum (G. Giannardi), 1949, **62,** 586 (ab)
—— thymic death following roentgen irradiation of a small area (K. Breitländer), 1950, **64,** 355 (ab)
—— tumors (W. D. Seybold, J. R. McDonald, O. T. Clagett and C. A. Good), 1951, **66,** 288 (ab)
—— tumor simulating pericardial effusion (A. Bernstein, E. Klosk, F. Simon and H. A. Brodkin), 1952, **67,** 513 (ab)
—— visualization of vessels of anterior mediastinum (S. Lentini and P. Barbieri), 1951, **66,** 838 (ab)
Thyroglobulin formation in thyroid follicle visualized by "coated autograph" technic (C. P. Leblond and J. Gross), 1950, **63,** 298 (ab)
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—— abnormal morphology, determination by radioactive iodine (W. E. Woodwin, F. K. Bauer, T. F. Barrett and B. Cassen), 1952, **68,** *963
—— accumulation of radioactive iodide in normal and thyrotoxic subjects and effect of thiocyanate on its discharge (M. M. Stanley and E. B. Astwood), 1949, **61,** 881 (ab)
—— acropachy (R. Greene), 1952, **67,** 141 (ab)
—— activity in mental patients (M. Reiss and others), 1952, **67,** 698 (ab)
—— activity measured by clearance rate of plasma iodine (N. B. Myant and E. E. Pochin), 1951, **65,** 671 (ab)
—— activity; urinary excretion of radioactive iodine as test (A. S. Mason), 1951, **65,** 671 (ab)
—— adenomas; malignancy (F. H. Lahey and H. F. Hare), 1952, **67,** 179 (ab)
—— and Basedow's disease; contributions to histomorphology and function of thyroid of various wild animals (W. Eickhoff), 1950, **64,** 506 (bk. rev.)
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—— aplasia, congenital, radioactive iodine studies; differentiation between mongoloid and cretinoid child at birth (J. E. Kearns and W. F. Hutson), 1952, **68,** 338 (ab)
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—— cancer and its metastases; treatment with radioactive iodine (J. Chester, P. Lerch and A. Vannotti), 1951, **66,** 693 (ab)
—— cancer; concentration of I 131 as shown by radioautography (P. J. Fitzgerald, F. W. Foote, Jr. and R. F. Hill), 1950, **64,** 363 (ab)
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—— cancer in children; 10 year follow-up (H. F. Hare and R. V. Newcomb), 1951, **65,** 144 (ab)
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—— cancer; morphological form and tracer pattern in thyroid malignancy (scientific exhibit) (W. L. Brosius, L. Reynolds, K. E. Corrigan and H. S. Hayden), 1952, **68,** 826
—— cancer, of base of tongue (S. Bachi), 1950, **64,** 519 (ab)
—— cancer; rotational therapy with two million volt roentgen therapy (J. G. Trump and others), 1951, **66,** *622
—— cancer symposium (instruction course) (H. F. Hare), 1949, **62,** 140
—— cancer; 10 to 20 year follow-up (H. F. Hare and F. A. Salzman), 1950, **63,** *881
—— cancer; treatment, radioactive iodine; limitations and indications (R. W. Rawson, J. E. Rall and W. Peacock), 1952, **68,** 538 (ab)
—— cancer; treatment, radioiodine (R. Paterson), 1951, **66,** 329 (ab); preliminary report (H. C. Warrington), 1951, **66,** 330 (ab)
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—— changes in blood iodine fractions and radioactivity under therapy (W. T. Salter, M. de Visscher, G. B. McAdams and I. Rosenblum), 1952, **68,** 858 (ab)
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—— disease; diagnosis by tracer dose of radioactive iodine (L. Seed, B. Jaffee and C. Baumeister), 1952, **68,** 538 (ab)
—— disease; diagnostic use of radioactive isotopes (L. Reynolds, K. E. Corrigan and H. S. Hayden), 1952, **68,** *421
—— disease; evaluation of radioiodine concentration test (N. G. Schneeberg, W. H. Perloff and W. Serber), 1952, **67,** 704 (ab)
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—— disordered and normal in children; uptake of radioactive iodine (E. H. Quimby and D. J. McCune), 1949, **61,** 574 (ab)
—— disorders; diagnosis and treatment with radioactive iodine (8-day half-life) (S. C. Werner, E. H. Quimby and C. Schmidt), 1950, **63,** 294 (ab)
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—— dysfunction; clinical study with use of radioactive iodine (R. Fraser, H. Miller and M. Reiss), 1951, **65,** 672 (ab)
—— dysfunction; evaluation of conversion of radioactive inorganic iodine to protein-bound iodine as diagnostic aid (W. N. Harsha), 1952, **68,** 857 (ab)
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—— foreign body in, after perforation of esophagus (E. E. Jemerin and J. S. Aronoff), 1950, **63,** 444 (ab)
—— frog; effects of certain antithyroid drugs on uptake of radioactive iodine by (W. O. Bradley), 1952, **68,** 170 (ab)
—— function and disease; investigation with radioactive iodine (E. E. Pochin), 1951, **65,** 675 (ab)
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—— function; plasma inorganic iodide as chemical regulator (J. Wolff and I. L. Chaikoff), 1950, **63,** 146 (ab)
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—— function; radioiodine test evaluation (H. L. Jaffe and R. E. Ottoman), 1951, **65,** 673 (ab)
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—— heart disease, similarity to chronic cor pulmonale; roentgen findings (M. O. Marks and H. A. Zimmerman), 1951, **66,** *23
—— Hürthle-cell cancer; 40 cases (E. L. Frazell and B. J. Duffy, Jr.), 1952, **68,** 492 (ab)
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—— hyer- and hypothyroidism; diagnosis with radioactive iodine (W. F. Perry and J. P. Gemmell), 1951, **65,** 676 (ab)
—— hyperthyroidism, dental manifestations (E. C. Stafne), 1952, **68,** 990 (ab)
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—— hyperthyroidism; treatment with radioactive iodine dosage; complications (W. G. Scott and others), 1951, **66,** *171
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—— hyperthyroidism, treatment, radioiodine; problem of dosage (E. R. Miller and G. E. Sheline), 1952, **68,** 708 (ab)
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—— hyperthyroidism with polyostotic fibrous dysplasia (M. Yettra and P. Starr), 1952, **67,** 315 (ab)
—— hypoparathyroidism; dental manifestations (E. C. Stafne), 1952, **68,** 990 (ab)
—— hypoparathyroidism, idiopathic (A. Jordan and A. R. Kelsall), 1952, **67,** 142 (ab)
—— hypoparathyroidism in animals; reparative osteogenesis of fractures treated with vitamin D_2 (F. Cozza), 1950, **64,** 557 (ab)
—— hypothyroidism, dental manifestations (E. C. Stafne), 1952, **68,** 990 (ab)
—— hypothyroidism, infantile; skeletal changes resembling scurvy before and after thyroid (A. Engeset, O. Imerslund and W. Blystad), 1952, **67,** 881 (ab)
—— hypothyroidism produced by radioactive iodine in treatment of euthyroid patients with angina pectoris and congestive heart failure; early results in various types of cardiovascular diseases and associated pathologic states (H. L. Blumgart, A. S. Freedberg and G. S. Kurland), 1951, **65,** 673 (ab)
—— hypothyroidism; treatment of incapacitated euthyroid cardiac patients by producing hypothyroidism with radioactive iodine (H. L. Blumgart, A. S. Freedberg and G. S. Kurland), 1952, **67,** 704 (ab)
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—— lingual, diagnosis; use of radioactive iodine (J. R. Timmons and J. M. Timmons), 1951, **66,** 1021 (ab)
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—— metastases in bone; roentgen appearance (R. S. Sherman and M. Ivker), 1950, **63,** *196
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—— neoplasms in youth (M. E. Dailey and S. Lindsay), 1951, **65,** 500 (ab)
—— nodules (J. E. Kearns, H. Davis, Jr. and T. R. Brand), 1952, **68,** 492 (ab)
—— of rat and man, formation of monoiodotyrosine from radioiodine in (K. Fink and R. M. Fink), 1949, **62,** 774 (ab)
—— of underfed rats, uptake of radioactive iodine by (J. Meites and L. F. Wolterink), 1951, **65,** 335 (ab)
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—— physiology; study with radioactive iodine (S. Hertz and A. Roberts), 1948, **59,** 153 (ab)
—— physiology; study with radioactive iodine (R. W. Rawson and B. N. Skanse), 1950, **63,** 295 (ab)
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—— tissues, normal and neoplastic; use of radioactive iodine in study (R. W. Rawson and others), 1950, **63,** 621 (ab)

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—— topographic study by means of external measurement of radioiodine; clinical significance (M. Tubiana and P. Süe), 1952, **67,** 703 (ab)
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—— sarcoma; excision of shaft; examination of patient 43 years after replacement by fibular graft (F. Gentil), 1951, **66,** 313 (ab)
—— tibial condyles fractures involving knee joint (E. F. Cave), 1949, **61,** 868 (ab)
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—— and **Irving, N. W.:** Roentgen therapy supplementing surgery in the treatment of gliomas, 1951, **66,** 683 (ab)
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—— factor and tolerance, canceroidal effect (M. Lenz), 1952, **67,** *432
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—— factor in lethal effects of total roentgen irradiation in Triton (V. V. Brunst and E. A. Sheremetieva-Brunst), 1949, **62,** *550
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—— photoelectric timing in diagnostic roentgenology (A. M. McNabb, J. D. Roger and I. L. Newton), 1950, **63,** *255
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Tippett, G. O.: Atlanto-axial fracture-dislocation, 1952, **67,** 169 (ab)
Tirman, W. S., and **Nickel, A. C.:** Practical compression device for spot roentgenograms, 1951, **65,** *800
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—— **Eisaman, J. L.,** and **Lloyd, J. T.:** Pulmonary artery obstruction; report of case with angiocardiographic demonstration, 1952, **67,** 849 (ab)
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—— amphibian; reaction after local roentgen irradiation (V. V. Brunst, D. J. Barnett and F. H. J. Figge), 1951, **66,** *420
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—— damage by radiation, probable role of chromosome changes in causation (H. J. Muller), 1951, **66,** 168 (ab)
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—— metabolism, effect of nitrogen mustards on (E. S. G. Barron, G. R. Bartlett and Z. B. Miller), 1949, **61,** 884 (ab)
—— method for routine detection of radiophosphates and other radioactive compounds in tissues; inverted autograph (L. F. Belanger), 1951, **65,** 676 (ab)
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—— of mediastinal tumors (F. Aguirre Medrano and O. Aguirre Medrano), 1952, **67,** 508 (ab)
—— roentgen examination of mediastinal lung hernia with reference to (H. Salinger), 1948, **60,** 710 (ab)
—— roentgen reticular appearance of perirenal fat tissue in extraperitoneal pneumoabdomen (retropneumoperitoneum) and (L. Vespignani), 1952, **68,** 835 (ab)
—— side view, in study of pulmonary apex; author's technic (C. Lanari), 1950, **63,** 937 (ab)
—— simultaneous; theory and technic (M. de Abreu), 1948, **60,** *668
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—— cancer; treatment with 10 gram radium beam unit; technic and results (C. A. P. Wood), 1950, **63,** *727
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—— study of thyroid by means of external measurement of radioiodine; clinical significance (M. Tubiana and P. Sue), 1952, **67,** 703 (ab)
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—— Developmental anatomy of heart and etiology of congenital heart disease, 1950, **64,** 682 (ab)
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—— Hereditary factors in sutural pattern of the skull, 1952, **68,** 673 (ab)
Tori, G.: Selective angiocardiography, 1952, **68,** 511 (ab)
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Torulosis, bone involvement in (V. P. Collins), 1950, **63,** *102
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—— diffuse Torula histolytica in newborn; roentgen changes produced by (E. B. D. Neuhauser and A. Tucker), 1948, **59,** *805
—— roentgen findings in 4 cases (R. R. Greening and L. J. Menville), 1949, **61,** 269 (ab)

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Toti, A.: Traumatic fractures in Cooley's anemia; report of cases and considerations of the genesis of the bone lesions, 1952, **67,** 883 (ab)
Toulet, J.: See **Albot, G.,** jt. auth.
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—— human, in England (N. M. Jacoby and L. Sagorin), 1949, **62,** 280 (ab)
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—— roentgen demonstration of unusual intracranial calcifications (S. H. Fisher and D. Wilson), 1948, **59,** *816
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—— toxoplasmic defects; roentgen diagnosis (J. Schoeps), 1950, **64,** 1024 (ab)
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Tracy, E. M.: See **Waterman, G. W.,** jt. auth.
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—— aspiration; additional method for early diagnosis of carcinoma of lung (W. G. Cahan and H. W. Farr), 1951, **65,** 504 (ab)
—— cancer; tracheographic diagnosis (A. Tänzer and A. Beutel), 1952, **68,** 1009 (ab)
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—— constriction, tracheo-esophageal, produced by right aortic arch and left ligamentum arteriosum (E. B. D. Neuhauser), 1949, **62,** *493
—— diameter in normal newborn infant (S. W. Donaldson and A. C. Tompsett, Jr.), 1952, **67,** *785
—— dilatation due to tuberculosis (A. Hirsch and J. M. Kapferer), 1952, **68,** 1008 (ab)
—— diverticula (G. W. Drymalski, J. R. Thompson and H. C. Sweany), 1948, **60,** *403
—— fistula, tracheoesophageal and congenital atresia (W. P. Longmire, Jr.), 1949, **61,** 123 (ab)
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—— fistula, tracheoesophageal, with congenital esophageal atresia; 5 cases and plea for early diagnosis (B. Donnelly), 1951, **65,** 502 (ab)
—— fistula, tracheoesophageal without esophageal atresia; 2 cases (T. F. Leigh, O. A. Abbott and W. A. Hopkins), 1952, **68,** 992 (ab)
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—— fistulas, congenital tracheoesophageal, without esophageal atresia (C. Haight), 1949, **62,** 584 (ab)
—— fluoroscopic visualization for instillation of lipiodol for bronchography (J. Pieri and Casalonga), 1950, **64,** 321 (ab)
—— foreign bodies; previously unreported sign (S. R. Kjellberg), 1948, **60,** 852 (ab)
—— malformations in congenital obstructions of respiratory tract (W. A. Evans, Jr.), 1949, **62,** *167
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—— obstruction due to congenital vascular ring; diagnosis and treatment (R. H. Sweet, C. W. Findlay and G. C. Reyersbach), 1948, **60,** 439 (ab)
—— papillomas (D. K. Buffmire, O. T. Clagett and J. R. McDonald), 1951, **66,** 483 (ab)
—— position visualization in determining position of aortic arch and descending aorta in children (R. Ash), 1952, **67,** *924
—— softening of entire tracheo-bronchial system (malacic tracheobronchopathy) (R. Pohl), 1951, **66,** 855 (ab)
—— surgical reconstruction (P. W. Gebauer), 1951, **66,** 288 (ab)
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—— tumors in infants and children (J. G. Gilbert, B. Kaufman and L. A. Mazzarella), 1950, **63,** 936 (ab)
—— use of plastic tracheal cannula with report of case (J. C. Barnett, I. A. Polisar and R. S. Polisar), 1950, **63,** 284 (ab)
Trafas, P. C.: See **Raftery, A.,** jt. auth.
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—— osteoarthritis of trapezio-metacarpal joint (C. Lasserre, D. Pauzat and R. Derennes), 1950, **64,** 344 (ab)
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Trauma, accidental cyst of chest wall lined with bronchial epithelium (G. N. Stemmermann and R. W. Duffy), 1951, **65,** 147 (ab)
—— acute traumatic posterior dislocation of intervertebral disc with paralysis (R. Schneider), 1950, **63,** 792 (ab)
—— avulsion fracture of lesser tuberosity of humerus (A. T. Andreasen), 1949, **61,** 139 (ab)
—— bilateral posttraumatic ulnocuneiform articulation (H. Milch), 1949, **61,** *80
—— cause of esophageal perforations (B. B. Gay, Jr.), 1952, **68,** *189
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—— cerebral; second-day pneumoencephalography with particular reference to size of ventricles (J. A. Stewart), 1952, **68,** *749
—— chylothorax, management (R. H. Meade, Jr., J. R. Head and C. W. Moen), 1951, **65,** 642 (ab)
—— delayed pathology of wounded lung (R. Ramniceanu and A. Paunesco-Podeanu), 1950, **64,** 325 (ab)
—— diaphragmatic hernia with complete evisceration of liver (W. P. Kleitsch, A. D. Munger and W. F. Johnson), 1950, **64,** 329 (ab)
—— erosive bone lesions and soft-tissue ossifications associated with spinal cord injuries (N. Heilbrun and W. G. Kuhn, Jr.), 1949, **61,** 434 (ab)
—— factor in ulceration after irradiation (H. B. Hunt and D. H. Breit), 1948, **59,** *12
—— head; roentgen aspects (R. J. Gross), 1950, **64,** *399
—— humerus varus after birth injury to proximal humeral epiphysis (L. S. Lucas and J. H. Gill), 1948, **59,** 596 (ab)
—— intracranial; evaluation by angiography (scientific exhibit) (J. E. Lofstrom, J. E. Webster and E. S. Gurdjian), 1952, **68,** 823
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—— "last straw" factor in low back disability (W. W. Watkins), 1949, **61,** 869 (ab)
—— nontraumatic and traumatic hernia (S. W. Harrington), 1949, **61,** 126 (ab)
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—— pancreatic calculosis after (C. S. Kipen), 1951, **65,** 987 (ab)
—— paraplegia in cervical spine injuries (R. Barnes), 1949, **61,** 142 (ab)
—— paraplegia in hyperextension cervical injuries with normal radiographic appearances (A. R. Taylor and W. Blackwood), 1949, **61,** 142 (ab)
—— posterior dislocation of shoulder joint (C. K. Warrick), 1949, **62,** 601 (ab)
—— post-traumatic aseptic necrosis of distal tibial epiphysis (R. S. Siffert and A. M. Arkin), 1951, **66,** 144 (ab)
—— post-traumatic intracranial hemorrhages; angiography (I. Wickbom), 1950, **63,** 756 (ab)
—— pronation injuries of the forearm (E. M. Evans), 1950, **64,** 343 (ab)
—— question of injury from thorotrast (W. Schmidt, A. Schulte and H. Lapp), 1951, **65,** 660 (ab)
—— radiation injuries; plastic surgical repair (scientific exhibit) (J. B. Brown, F. McDowell and M. P. Fryer), 1950, **64,** 850

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—— renal; cystoscopy and retrograde pyelography in management (L. A. Orkin), 1950, **64,** 699 (ab)
—— roentgen appearance of chest in diseases affecting peripheral vascular system of the lungs (R. P. Barden and D. A. Cooper), 1949, **62,** 906 (ab)
—— roentgen manifestations of intrathoracic injury due to missiles (W. A. Evans, Jr.), 1948, **59,** *662
—— role in spontaneous rupture of kidney (L. A. Martineau and E. F. Turkel), 1948, **59,** *365
—— role in supraspinatus tendinitis; roentgen therapy (O. T. Steen and J. A. L. McCullough), 1951, **65,** *249
—— rupture of small intestine complicating injury of pelvis (D. A. Sampson and H. M. Stauffer), 1949, **61,** 431 (ab)
—— sacroiliac joint changes in traumatic paraplegics (M. S. Abel), 1951, **66,** 309 (ab)
—— significance of minor bone injuries (H. W. Gillespie), 1948, **59,** 462 (ab)
—— small intestinal rupture due to non-penetrating abdominal injury; roentgen study (G. Jacobson and R. A. Carter), 1951, **66,** *52
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—— traumatic and related types of diaphragmatic hernia (F. Isaac, F. B. Wilkins and J. Weinberg), 1951, **66,** 858 (ab)
—— traumatic aneurysms; roentgen visualization (H. Angerer and A. Ravelli), 1951, **65,** 152 (ab)
—— traumatic biliary-bronchial fistula (C. C. Guy and H. T. Oleck), 1949, **61,** 123 (ab)
—— traumatic bronchial rupture with occlusion (P. J. Hodes, J. Johnson and J. P. Atkins), 1948, **60,** *448
—— traumatic chylothorax; roentgen aspects of this problem (R. M. Lowman, J. Hoogerhyde, L. L. Waters and C. Grant), 1951, **65,** *529
—— traumatic deformities of head of humerus following dislocations of shoulder joint (F. Gauwerky), 1952, **68,** 690 (ab)
—— traumatic diaphragmatic hernia (F. Hughes and others), 1948, **60,** 713 (ab)
—— traumatic diaphragmatic hernia (B. N. Carter, J. Giuseffi and B. Felson), 1951, **65,** *56
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—— traumatic fractures in Cooley's anemia (A. Toti), 1952, **67,** 883 (ab)
—— traumatic instability of ankle joint (O. C. Kestler), 1948, **60,** *498
—— traumatic intracranial hemorrhage, diagnosis by angiography (J. E. Webster, R. Dawson and E. S. Gurdjian), 1952, **67,** 843 (ab)
—— traumatic intrauterine adhesions (J. G. Asherman), 1951, **66,** 669 (ab)
—— traumatic liver cyst (E. S. Kerekes and J. Ewing), 1951, **66,** 859 (ab)
—— traumatic lung carcinoma (J. Dahmann), 1952, **68,** 680 (ab)
—— traumatic myositis ossificans; roentgen therapy (E. A. Pohle and C. Tomlinson), 1949, **61,** 284 (ab)
—— traumatic periostitis in young children (G. H. Barmeyer, L. R. Alderson and W. B. Cox), 1951, **66,** 992 (ab)
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—— traumatic pneumonia; roentgen manifestations (W. A. Evans, Jr.), 1948, **59,** *663
—— traumatic posterior dislocation of humerus (J. C. Wilson and F. M. McKeever), 1949, **62,** 765 (ab)

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Treves, N.: Castration as therapeutic measure in cancer of male breast, 1950, **63,** 288 (ab)
—— and **Sunderland, D. A.:** Cystosarcoma phyllodes of breast; a malignant and a benign tumor; clinicopathological study of 77 cases, 1952, **68,** 675 (ab)
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Trichinosis, calcification; roentgenology (E. Samuel), 1950, **63,** *518
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Triethylene melamine in treatment of neoplastic disease; compound with nitrogen-mustard like activity suitable for oral and intravenous use (D. A. Karnofsky and others), 1952, **67,** 706 (ab)
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Troland, C. E.: See **Coleman, C. C.,** jt. auth.
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—— and **Gager, R. M.:** Physical characteristics of soft roentgen rays, 1949, **62,** *91
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—— **Graves, D. E.,** and **Slauson, D. B.:** High kilovoltage radiography, 1950, **63,** 627 (ab)
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Troxler, E. R., and **Niemetz, D.:** Generalized xanthomatosis with pulmonary, skeletal and cerebral manifestations, 1948, **59,** 768 (ab)
Truc, M., and **Paleirac:** Exoperitoneal insufflation through the suprapubic space; new technique of insufflation; roentgen examination of subperitoneal space of the abdomen and pelvis, 1952, **68,** 683 (ab)
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—— Physical basis for high skin tolerance of supervoltage roentgen rays, 1949, **62,** 775 (ab)
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—— and **others:** Two million volt roentgen therapy using rotation, 1951, **66,** *613
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—— neutralizing serum with erythema nodosum (K. Sterling), 1951, **66,** 150 (ab)
—— sensitivity and pulmonary findings among student nurses (L. B. Edwards, I. Lewis and C. Palmer), 1949, **62,** 751 (ab)
—— sensitivity in relation to pulmonary calcifications (W. G. Beadenkopf and others), 1949, **62,** 753 (ab)
—— test, negative, osseous tuberculosis with (L. Cozen), 1952, **68,** 158 (ab)
—— test, quantitative; significance in diagnosis of tuberculosis (G. E. Woodruff), 1949, **61,** 575 (ab)
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—— of diaphragm (C. L. Tu and C. K. Hsieh), 1950, **63,** *822
—— pulmonary; pathogenesis, diagnosis and management (G. J. Culver, J. P. Concannon and J. E. MacManus), 1951, **66,** 846 (ab)
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—— aseptic necrosis of femoral head simulating (C. E. Rothschild), 1950, **64,** 862 (ab)
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—— control; recent developments (G. E. Woodruff), 1949, **61,** 575 (ab)
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—— control; some medical and roentgenological aspects of mass chest surveys; organization of committees (A. C. Christie), 1949, **61,** *147
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—— alveolar cell, of lung (M. W. Davis and T. R. Simon), 1951, **66,** 845 (ab)
—— alveolar-cell of lung (E. R. Griffith, J. R. McDonald and O. T. Clagett), 1951, **66,** 844 (ab)
—— and aneurysm, mediastinal, differentiation; value of angiocardiography (I. Steinberg and C. T. Dotter), 1950, **63,** 935 (ab)
—— and cyst, renal; differential diagnosis (G. C. Prather), 1951, **66,** 307 (ab)
—— and pseudo-tumor processes; relation to amebic dysentery (M. Habibi), 1950, **63,** 278 (ab)
—— angiofibroma, juvenile nasopharyngeal (H. Martin, H. E. Ehrlich and J. C. Abels), 1948, **60,** 700 (ab)
—— angioma; intracranial calcification in encephalo trigeminal angiomatosis (J. G. Bielawski and M. Tatelman), 1949, **62,** *247
—— angiomas; treatment (E. Daubresse), 1950, **64,** 184 (ab)
—— angioma; Weber-Sturge's disease (F. Sommer), 1952, **67,** 132 (ab)
—— angioma; Weber-Sturge syndrome (G. Di Chiro and E. Lindgren), 1952, **67,** 838 (ab)
—— angioma; Weber-Sturge syndrome; roentgen aspects before and after neurosurgery (J. R. Green, J. Foster and D. L. Berens), 1950, **64,** *391
—— angiosarcoma, primary, of heart (H. S. Tacket, R. S. Jones and J. W. Kyle), 1951, **65,** 979 (ab)
—— anterior mediastinal (M. S. Lloyd), 1948, **60,** 852 (ab)
—— apical lung; primary cancer of lung with special reference to (J. J. Stein), 1948, **59,** *58
—— argentaffinoma of gastrointestinal tract (D. R. K. Reid), 1949, **62,** 593 (ab)
—— at cerebellopontine recess; differential diagnosis (A. G. Revilla), 1950, **63,** 436 (ab)
—— autogenous to homozygous hosts, radiosensitivity (A. Goldfeder), 1950, **63,** 298 (ab)
—— below the tentorium; ventriculography (E. Lysholm), 1948, **59,** 441 (ab)
—— benign and malignant epithelial, of thyroid gland (L. M. Zimmerman, D. H. Wagner, H. M. Perlmutter and G. D. Amromin), 1951, **65,** 968 (ab)
—— benign and malignant, of bone; diagnosis (instruction course) (J. F. Holt), 1949, **62,** 143
—— benign and malignant, of ileocecal valves; differential diagnosis (C. L. Hinkel), 1952, **68,** *176
—— benign and malignant, of kidney; roentgen signs (R. Hickel), 1948, **60,** 577 (ab)
—— benign fibroma of chest wall (S. G. Baxter and D. D. Munro), 1951, **65,** 825 (ab)
—— benign mixed, of anlage origin in parotid region; direct operative removal (J. B. Brown, F. McDowell and M. P. Freyer), 1951, **65,** 142 (ab)
—— benign, of small bowel (J. D. Olson, M. B. Dockerty and H. K. Gray), 1952, **68,** 317 (ab)
—— benign, of bone (M. M. Copeland), 1951, **65,** 995 (ab)
—— benign, of duodenal bulb (F. Lepennetier, G. Morin, R. Grain and Siguier), 1948, **60,** 574 (ab)
—— benign, of esophagus (W. L. Garlick and J. G. Stegmaier), 1952, **67,** 508 (ab)
—— benign, of stomach (A. L. C. Maggi, M. Meeroff and A. Kuperman), 1952, **67,** 156 (ab)
—— benign, of stomach; case of lipoma submucosa ventriculi simulating cancer of the stomach (H. Paaby), 1950, **64,** 161 (ab)
—— benign or malignant, of mediastinum and pericardial cysts, differential roentgen diagnosis (W. M. Loehr), 1952, **68,** *599

Tumors (Continued)
—— benign polypoid, of esophagus (A. F. McBride, Jr.), 1952, **67,** 852 (ab)
—— bladder (W. C. Stirling and J. E. Ash), 1950, **64,** 172 (ab)
—— bladder, malignant; spontaneous disappearance or retrogression (B. S. Abeshouse and I. Scherlis), 1951, **66,** 870 (ab)
—— bladder; study in Registry of American Urological Association (A. L. Dean and J. E. Ash), 1951, **65,** 303 (ab)
—— bladder; treatment; critical analysis (R. B. Mullenix and R. J. Prentiss), 1950, **63,** 294 (ab)
—— blood supply, in man; fluorescence of cutaneous lesions (H. R. Bierman, K. H. Kelly, K. S. Dod and R. L. Byron, Jr.), 1952, **67,** 706 (ab)
—— blood supply, in man; intra-arterial nitrogen mustard therapy of cutaneous lesions (H. R. Bierman and others), 1952, **67,** 706 (ab)
—— bone, and related conditions (B. L. Coley), 1949, **62,** 578 (bk. rev.)
—— bone; arteriography (R. Dos Santos), 1950, **64,** 712 (ab)
—— bone; chondromyxoid fibroma (H. L. Jaffe and L. Lichtenstein), 1949, **62,** 299 (ab)
—— bone; diagnosis (J. F. Brailsford), 1950, **64,** 349 (ab)
—— bone; diagnosis, biopsy; serious limitations and erroneous indications (J. Brailsford), 1948, **60,** 720 (ab)
—— bone; diagnosis (instruction course) (V. W. Archer), 1949, **62,** 142
—— bone; experiences with (J. F. Brailsford), 1949, **61,** 136 (ab)
—— bone; general biology (instruction course (L. C. Johnson), 1951, **66,** 271
—— bone, malignant; differential diagnosis (M. B. Coventry), 1951, **66,** 510 (ab)
—— bone; multiple osteogenic sarcoma (A. J. Ackerman), 1948, **60,** *623
—— bone, primary malignant (L. Guzman), 1951, **66,** 994 (ab)
—— bone, primary; radiological aspects (C. Gianturco), 1951, **66,** 1006 (ab)
—— bone; problems in pathology (J. F. Brailsford), 1952, **68,** 526 (ab)
—— bone; radiation tolerance (M. Lenz), 1952, **67,** *433
—— bone; radiotherapy and radiobiology (A. Grilli), 1951, **66,** 474 (bk. rev.)
—— brain, diagnosis; cerebral angiography (instruction course) (P. J. Hodes), 1952, **68,** 128
—— brain; isotope encephalometry (G. E. Moore and others), 1951, **66,** *2
—— brain, primary; roentgen therapy (J. R. Fried and L. M. Davidoff), 1952, **68,** 164 (ab)
—— "brain tumor suspects;" cerebral angiography (G. G. Culbreth, A. E. Walker and R. W. Curry), 1950, **64,** 1027 (ab)
—— breast; behavior after roentgen therapy as sole method of treatment of cancer of breast (F. Baclesse), 1949, **62,** *313
—— breast; classification (F. Baclesse), 1949, **62,** *313
—— breast; diagnosis by simple roentgenography; calcifications in carcinomas (R. Leborgne), 1951, **65,** *1
—— breast; infrared photographic study of superficial veins of thorax in relation to (L. C. Massopust), 1948, **60,** 438 (ab)
—— breast, in mice; effect of long continued irradiation (E. Lorenz), 1950, **63,** *182
—— bronchial, benign (H. Berning), 1950, **64,** 152 (ab)
—— bronchogenic; roentgen manifestations; (instruction course) (L. G. Rigler), 1948, **60,** 124; 1949, **62,** 145

Tumors (Continued)
—— carcinoid, exclusive of carcinoma of jejunum and ileum (J. E. Pridgen, C. W. Mayo and M. B. Dockerty), 1951, **65,** 840 (ab)
—— carcinoid of duodenum (J. R. Hannan, J. B. Hazard and R. E. Wise), 1951, **66,** *569
—— carcinoid, of small bowel (J. B. D'Albora and A. P. Ingegno), 1950, **63,** 277 (ab)
—— carcinoid; re-emphasis of their malignant nature (C. M. Pearson and P. J. Fitzgerald), 1950, **64,** 334 (ab)
—— carcinosarcoma of esophagus; unusual case (N. Ende, P. Pizzolato, L. Raider and J. Ziskind), 1951, **65,** *227
—— carotid body (F. H. Lahey and K. W. Warren), 1948, **59,** 757 (ab)
—— carotid body with nodular goiter (A. J. Corbett and J. C. McClintock), 1950, **64,** 676 (ab)
—— carotid body, bilateral, with unusual family incidence (E. F. Lewison and T. Weinberg), 1950, **64,** 1028 (ab)
—— carotid body; natural history and diagnosis and treatment (R. S. Monro), 1951, **65,** 641 (ab)
—— cartilaginous, of hand (J. G. Shellito and M. B. Dockerty), 1949, **61,** 139 (ab)
—— cartilaginous, of ribs and sternum (L. W. O'Neal and L. V. Ackerman), 1951, **66,** 1005 (ab)
—— cartilaginous, and their metastases; labeled inorganic sulfate in diagnosis (L. L. Layton), 1950, **64,** 186 (ab)
—— cauda equina, as cause of low-back syndrome (J. W. Toumey, J. L. Poppen and M. T. Hurley), 1951, **65,** 318 (ab)
—— cavernous hemangioma, of mediastinum (N. K. Thomas and I. M. Chesser), 1951, **66,** 289 (ab)
—— cells; radioresistance after radiation treatment of cancer (F. Windholz), 1949, **61,** 442 (ab)
—— central nervous system; radioactive diiodofluorescein in diagnosis and localization (L. Davis and others), 1951, **66,** 692 (ab)
—— cerebellar metastasizing; difficulty in distinguishing between medulloblastoma and neuroblastoma (R. P. Barden and F. H. Lewey), 1950, **64,** 517 (ab)
—— cerebellopontine angle; roentgen manifestations (P. J. Hodes, E. P. Pendergrass and J. M. Dennis), 1952, **68,** 487 (ab)
—— cerebral and Morgagni's syndrome (S. Moore), 1952, **68,** 490 (ab)
—— cerebral, angiography; indications and contraindications (J. R. Green and R. Arana), 1948, **59,** *634; *647
—— cerebral complicating pregnancy (C. W. Rand and M. Andler), 1950, **64,** 674 (ab)
—— cerebral; diagnosis and treatment; uses of nuclear disintegration (W. H. Sweet), 1952, **68,** 858 (ab)
—— cerebral, diagnosis, arteriography (R. E. Wise, C. R. Hughes and J. R. Hannan), 1950, **64,** *242
—— cerebral, diagnosis; carotid angiography (J. Bonnal and F. Santamaria), 1952, **68,** 989 (ab)
—— cerebral, diagnosis; displaced intracranial physiologic calcification (B. R. Young), 1950, **64,** 313 (ab)
—— cerebral, diagnosis, fluorescein (G. E. Moore and others), 1951, **66,** 698 (ab)
—— cerebral, experimental irradiation (K. Tansley and C. W. Wilson), 1949, **61,** 585 (ab)
—— cerebral, localization by fluorescein (H. J. Svien and A. B. Johnson, II), 1952, **67,** 500 (ab)
—— cerebral; localization with positron-emitting radioisotopes (F. R. Wrenn, Jr., M. L. Good and P. Handler), 1952, **67,** 703 (ab)

Tumors (Continued)
—— cerebral, radiodiagnosis (F. Mascherpa), 1951, **66,** 473 (bk. rev.)
—— cerebral; roentgen therapy, value of ventriculoencephalography (E. P. Pendergrass and J. M. Phillips), 1951, **66,** *603
—— cerebral; rotational therapy with 2 million volt roentgen therapy (J. G. Trump and others), 1951, **66,** *622
—— cerebral; scintillation counter for diagnosis and localization (M. Ter-Pogossian, W. B. Ittner, III, W. B. Seaman and H. G. Schwartz), 1952, **67,** *351
—— cerebral; studies on blood-brain barrier with radioactive phosphorus (L. Bakay), 1952, **68,** 167 (ab)
—— cerebral, surgery; clinical use of radioactive phosphorus (B. Selverstone, W. H. Sweet and C. V. Robinson), 1950, **64,** 364 (ab)
—— cerebral, surgery; evaluation of radioactive mapping technic (B. Selverstone and J. C. White), 1952, **68,** 337 (ab)
—— cerebral (3rd and lateral ventricles) (R. M. Lowman, R. Shapiro and L. C. Collins), 1948, **59,** *191; *193
—— cheek, malignant, in children (G. E. Ward and E. R. Shipley), 1948, **60,** *758
—— chemotherapy of neoplastic disease; methods of approach; trends in experimental cancer therapy; agents of clinical value (D. A. Karnofsky), 1949, **62,** 613 (ab)
—— chemotherapy; systemic pathological effects of nitrogen mustards (B. H. Landing and others), 1950, **64,** 365 (ab)
—— chest wall (B. Blades and L. S. Paul), 1951, **65,** 969 (ab)
—— chloroma, unusual roentgen shadow in (J. M. Dell, Jr.), 1949, **61,** 436 (ab)
—— chondroblastic, of bone, benign and malignant (M. M. Copeland and C. F. Geschickter), 1950, **63,** 604 (ab)
—— chondroma of larynx (M. D. Ryan and J. Zizmor), 1949, **62,** *715
—— chondromyxoid fibroma of bone (H. L. Jaffe and L. Lichtenstein), 1949, **62,** 299 (ab)
—— chordoma, of right frontal sinus (W. S. Adams), 1948, **60,** 699 (ab)
—— chordomas; roentgen study of 16 cases previously unreported (E. H. Wood, Jr. and G. M. Himadi), 1951, **65,** 849 (ab)
—— chromophobe adenoma of pituitary (W. G. Evans and G. Piccioto), 1949, **62,** 904 (ab)
—— chromophobe, presumed or verified; diagnosis of hypopituitarism associated with (L. M. Hurxthal and O. Z. Younghusband), 1950, **63,** 932 (ab)
—— containing I 131; measurement (F. R. Hill, G. J. Hine and L. D. Marinelli), 1950, **63,** *166
—— corpus callosum (R. M. Lowman, R. Shapiro and L. C. Collins), 1948, **59,** *189
—— cranial; primary hemangioma (B. D. Wyke), 1949, **61,** *302
—— cranial; roentgen findings (B. R. Young), 1951, **66,** 481 (ab)
—— craniopharyngioma, diagnosis (L. Haas), 1951, **65,** 131 (bk. rev.)
—— craniopharyngiomas (J. G. Love and T. M. Marshall), 1951, **65,** 823 (ab)
—— craniopharyngiomas; surgery (P. D. Gordy, M. M. Peet and E. A. Kahn), 1950, **64,** 518 (ab)
—— cylindroma, massive, of scalp and face; surgical management (B. Goldman), 1952, **67,** 505 (ab)
—— cystadenoma of pancreas (R. S. Haukohl and A. Melamed), 1950, **63,** *234

Tumors (Continued)
—— cystic hygroma of neck and mediastinum (G. E. Pfahler and H. H. Perlman), 1950, **63,** *539
—— cystic, of thymic region and myasthenia gravis (C. B. Fulghum), 1950, **64,** 1029 (ab)
—— cystosarcoma phyllodes of breast, a malignant and benign tumor (N. Treves and D. A. Sunderland), 1952, **68,** 675 (ab)
—— desmoid, extra-abdominal (J. E. Musgrove, and J. R. McDonald), 1949, **62,** 460 (ab)
—— desmoid, periosteal; cortical defect due to (P. Kimmelstiel and I. Rapp), 1952, **68,** 693 (ab)
—— diagnosis by enema of small intestine (A. Lura), 1952, **67,** 870 (ab)
—— differentiation and irradiation (S. R. Andersen), 1950, **64,** 881 (ab)
—— dilatation of jejunum (L. E. Hawes), 1949, **62,** *831
—— distribution of radioactive iodine in mice with and without tumor 15091a after injection of radioactive sodium iodide (C. D. Stevens, M. A. Meinken, P. M. Quinlin and P. H. Stewart), 1950, **64,** 905 (ab)
—— dose in cancer of larynx (C. P. Donlan), 1949, **62,** 459 (ab)
—— dose, individualizing, in cancer of uterine cervix by means of simple caliper (J. B. Jarvis), 1950, **63,** 958 (ab)
—— dumb-bell ganglioneuromata (C. P. Sames), 1951, **65,** 167 (ab)
—— dysgerminoma, of ovary (P. Pedowitz and D. M. Grayzel), 1952, **67,** 876 (ab)
—— ecchondroma of hand (J. G. Shellito and M. B. Dockerty), 1949, **61,** 139 (ab)
—— embryological, of retinal anlage involving the skull (B. E. Clarke and H. Parsons), 1952, **67,** 502 (ab)
—— embryoma, of kidney (H. K. Silver), 1948, **60,** 149 (ab)
—— embryonal rhabdomyosarcoma of head and neck in children and adolescents (G. D. Stobbe and H. W. Dargeon), 1951, **66,** 831 (ab)
—— enchondroma, multiple (H. A. T. Fairbank), 1949, **62,** 607 (ab)
—— enchondroma of hand (J. G. Shellito and M. B. Dockerty), 1949, **61,** 139 (ab)
—— enteric cyst of duodenum (S. H. Lorber and T. E. Machella), 1950, **63,** 275 (ab)
—— ependymoma of lateral ventricle; case with more than 12 years' survival (A. Kaplan), 1951, **66,** 830 (ab)
—— ependymomas, transplanted, growth in mice; effect of cortisone (R. J. Brzustowicz, H. J. Svien, W. A. Bennett and G. M. Higgins), 1952, **67,** 344 (ab)
—— epidermoid, intracranial; jugular foramen (Jackson's) syndrome (J. G. Love), 1952, **67,** 842 (ab)
—— epidermoids (F. C. Grant and G. M. Austin), 1951, **65,** 822 (ab)
—— epididymis (S. Glaser), 1951, **66,** 507 (ab)
—— epiphyseal chondroblastoma (J. Valls, C. E. Ottolenghi and F. Schajowicz), 1950, **63,** 787 (ab)
—— epithelioma of skin, self-healing (A. A. Charteris), 1951, **65,** *459
—— esophageal, benign (P. S. H. Chi and W. E. Adams), 1950, **64,** 688 (ab)
—— esophageal, benign pedunculated (R. C. Beeler, J. N. Collins and M. F. Hall), 1948, **60,** *466
—— esophageal, polypous sarcoma and stenosing fibroma (P. Cottet), 1950, **64,** 537 (ab)
—— Ewing's, reactive bone formation (C. Z. Garber), 1952, **67,** 1021 (ab)
—— extra-abdominal desmoid (J. E. Musgrove and J. R. McDonald), 1949, **62,** 460 (ab)

Tumors (Continued)
—— extramucosal intramural enteric cyst of esophagus (B. D. Rosenak and H. D. Van Vactor), 1951, **66,** *81
—— fibroadenoma, of breast (J. Gershon-Cohen and H. Ingleby), 1952, **68,** 1009 (ab)
—— fibroma, giant intrathoracic (A. L. Stockler, L. R. Pereira and R. F. de Mello), 1950, **64,** 522 (ab)
—— fibromyxosarcoma of skull and meninges (G. S. Baker, M. B. Dockerty and R. L. J. Kennedy), 1951, **65,** 139 (ab)
—— further studies on relation between radiation effects, cell viability, and induced resistance to malignant growth (A. Goldfeder), 1949, **61,** 881 (ab)
—— gallbladder; cholecystography; newer developments (instruction course) (B. R. Kirklin), 1948, **60,** 129 (ab)
—— gastric adenomyosis (R. J. C. Campbell), 1950, **64,** 331 (ab)
—— gastric, benign, and prolapsed gastric mucosa; differential roentgen diagnosis (C. Hawley, P. D. Meyer and B. Felson), 1949, **61,** *794
—— gastric carcinoids (R. H. Marshak and A. I. Friedman), 1951, **66,** *200
—— gastric neurilemmoma (J. A. Baty), 1952, **68,** 684 (ab)
—— gastric, primary; histologic characteristics and growth behavior (W. D. Stovall), 1951, **66,** 299 (ab)
—— gastric; standard radiologic methods (F. J. Hodges), 1951, **66,** 299 (ab)
—— gastric; surgical treatment; present status (C. A. Moyer and S. L. Clayton), 1951, **66,** 299 (ab)
—— gastrointestinal tract (J. C. Ehrlich and O. B. Hunter), 1948, **59,** 587 (ab)
—— giant cell; aneurysmal bone cyst commonly mistaken for (L. Lichenstein), 1950, **64,** 867 (ab)
—— giant cell, benign; malignant degeneration following irradiation with ordinary doses (T. Leucutia and J. C. Cook), 1949, **62,** *688
—— giant cell, benign; malignant degeneration following surgery (T. Leucutia and J. C. Cook), 1949, **62,** *700
—— giant cell, benign, of bone; malignant degeneration (T. Leucutia and J. C. Cook), 1949, **62,** *685
—— giant cell, benign, of bone; roentgen therapy (F. Buschke and S. Cantril), 1950, **63,** 292 (ab)
—— giant cell, compression of spinal cord (P. Teng, S. W. Gross and C. M. Newman), 1952, **68,** 522 (ab)
—— giant cell, confined to greater trochanter (M. J. Stewart and E. J. Otis, Jr.), 1951, **65,** 315 (ab)
—— giant cell, of bone (F. Schajowicz and S. Mondolfo), 1952, **68,** 159 (ab)
—— giant cell, of bone (F. B. Bogart and A. E. Imler), 1949, **61,** 873 (ab)
—— giant cell, of bone; comparison between anatomical and roentgenological appearance (M. Piedmonte and C. Sirtori), 1949, **62,** 770 (ab)
—— giant cell, of bone; current status of problems in diagnosis and treatment (L. Lichenstein), 1951, **66,** 993 (ab)
—— giant cell, of bone; is roentgen therapy hazardous in benign bone lesions? 1949, **62,** 891 (E)
—— giant cell, of bone, malignant degeneration (P. Marques, M. Grimoud and G. Pouch), 1949, **62,** 298 (ab)
—— giant cell, of bone; pathology (R. A. Willis), 1950, **63,** 601 (ab)
—— giant cell, of bone; treatment (T. M. Prosser), 1950, **63,** 602 (ab)
—— giant cell, of ribs (M. G. Buckles and E. C. Lawless), 1950, **64,** 868 (ab)

Tumors (Continued)
—— giant cell, of tendone sheath origin (A. G. Fletcher, Jr. and R. C. Horn, Jr.), 1952, **67,** 173 (ab)
—— giant cell, pulsating benign, of bone (T. A. Shallow and F. B. Wagner), 1949, **62,** 158 (ab)
—— giant cell, subperiosteal (J. T. Hodgen and C. H. Frantz), 1948, **59,** 764 (ab)
—— glioastrocytomas, cystic, of cerebellum in child (A. H. Schroeder, J. Medoc and A. M. Schroeder Otero), 1952, **67,** 503 (ab)
—— glomus (M. Riveros and G. T. Pack), 1952, **67,** 178 (ab)
—— glomus; roentgen diagnosis (W. H. Mathis, Jr. and M. D. Schulz), 1949, **62,** 903 (ab)
—— glomus, within bone (W. Lehman and C. Kraissl), 1950, **63,** 605 (ab)
—— granulosa cell, of ovary (M. Haines and I. Jackson), 1951, **66,** 667 (ab)
—— granulosa cell, of ovary, with special reference to radiosensitivity (R. D. Moreton and E. T. Leddy), 1948, **59,** *717
—— hamartoma of lung (J. H. Whiteside), 1951, **66,** 488 (ab)
—— hamartoma of lung (E. A. Bragg, Jr. and G. Levene), 1950, **64,** 1033 (ab)
—— hamartoma of lung; improbability of preoperative diagnosis (W. E. Lemon and C. A. Good), 1951, **66,** 488 (ab)
—— hamartoma of lung; roentgen significance (W. C. Hall), 1948, **60,** *605
—— head and neck; diagnosis and treatment (G. E. Ward and J. W. Hendrick), 1951, **65,** 633 (bk. rev.)
—— head and neck; diagnosis and treatment; value of soft-tissue technic (G. H. Fletcher and K. E. Matzinger), 1952, **68,** 345 (ab)
—— heart (H. Franke), 1951, **66,** 124 (ab)
—— heart, primary malignant; diagnosed in vivo with aid of artificial pneumopericardium (K. Lutschitz, E. Lundsteen and E. Forchhammer), 1950, **63,** 443 (ab)
—— hemangioblastoma, spinal extradural; roentgenographically visualized with diodrast at operation and successfully removed (I. M. Tarlov), 1949, **61,** 742 (ab)
—— hemangio-endothelioma of pelvis; response to irradiation (S. Rubin and D. S. Dann), 1950, **63,** *545
—— hemangiolipoma, extradural; compression of spinal cord and Klippel-Feil's syndrome (P. C. Bucy and H. Ritchey), 1949, **61,** 267 (ab)
—— hemangiomas; classification, diagnosis and treatment (G. T. Pack and T. R. Miller), 1951, **65,** 678 (ab)
—— hemangiopericytoma (A. P. Stout), 1950, **64,** 717 (ab)
—— hemangiosarcoma, primary, of pericardium (J. DeCarlo, Jr. and J. N. Lindquist), 1950, **63,** *360
—— hemangio-sarcomatosis erroneously considered as generalized tuberculosis (M. D. Collins and H. Fisher), 1950, **64,** 1034 (ab)
—— hematoma, subdural, with multiple fractures (M. J. Smith), 1950, **63,** *342
—— hemophilic pseudotumor, so-called, in hemophilia (R. K. Ghormley and R. S. Clegg), 1949, **62,** 302 (ab)
—— histology, influence; duration of symptoms and age of patient on radiocurability of cervix tumors (M. Gilmour, A. Gluecksmann and F. G. Spear), 1950, **63,** 616 (ab)
—— host studies; increased concentration of tagged iodotyrosines in gastrointestinal tract of rats bearing tumors (K. G. Scott and R. S. Stone), 1951, **66,** 169 (ab)

Tumors (Continued)
—— hour glass, benign intraspinal-intrathoracic, with paraplegia (E. Alexander and R. M. James), 1950, **63,** 597 (ab)
—— Hürthle cell, of thyroid and skull (R. C. Shaw), 1952, **67,** 850 (ab)
—— Hürthe cell, of thyroid gland (V. E. Chesky, W. C. Dreese and C. A. Hellwig), 1952, **68,** 1003 (ab)
—— human, thyroidal, transplanted into anterior chamber of guinea pig eye; study of behavior (B. M. Dobyns and B. Lennon), 1952, **68,** 869 (ab)
—— hypernephroid (N. A. Harvey), 1948, **60,** 149 (ab)
—— hypernephroid, nephrectomy; spontaneous disappearance of pulmonary metastases after (L. T. Mann), 1948, **60,** 569 (ab)
—— hypernephroma, in polycystic kidney (W. G. Hayward), 1948, **59,** 310 (ab)
—— hypernephromas of kidney in association with Lindau's disease (L. F. Greene and M. H. Rosenthal), 1952, **67,** 529 (ab)
—— hypophyseal; Cushing syndrome of prolonged course associated with (R. Messimy, G. Berthet and R. Cousin), 1951, **65,** 494 (ab)
—— hypophyseal; radiation therapy results (D. Nittinger), 1951, **66,** 156 (ab)
—— in diverticulum of bladder (S. Petkovic), 1951, **65,** 992 (ab)
—— in mice, in vivo staining and retardation by acridine compounds (M. R. Lewis), 1949, **61,** 287 (ab)
—— infiltrating, of bladder (G. Mayor), 1951, **65,** 668 (ab)
—— inhibition; effect of roentgen therapy and/or pyrimidine (J. W. J. Carpender and R. R. Lianer), 1951, **66,** 699 (ab)
—— intracranial (P. Bailey), 1949, **62,** 744 (bk. rev.)
—— intracranial; clinical and experimental studies with fluorescein dyes; possible use of K42 and iodine 131 tagged human albumin (G. E. Moore and others), 1951, **66,** *1
—— intracranial craniopharyngiomas in children (F. D. Ingraham and H. W. Scott), 1948, **59,** 755 (ab)
—— intracranial, diagnosis; plain radiography of skull (D. Stenhouse), 1950, **63,** 932 (ab)
—— intracranial; epilepsy secondary to (J. C. White, C. T. Liu and W. J. Mixter), 1949, **62,** 150 (ab)
—— intracranial meningiomas (F. C. Grant), 1948, **59,** 898 (ab)
—— intracranial; significance of intracranial calcification in roentgen diagnosis (J. D. Camp), 1951, **66,** 830 (ab)
—— intradural, of lumbar sac, spontaneous subarachnoid hemorrhage; clinical syndrome (E. F. Fincher), 1952, **68,** 989 (ab)
—— intraspinal meningiomas, calcification in (G. J. Culver, J. P. Concannon and E. C. Koenig), 1949, **62,** *237
—— intrathoracic neurogenic (L. Efskind and K. Liavaag), 1951, **65,** 973 (ab)
—— intrathoracic; surgical experience (S. O. Freedlander, S. Wolpaw and H. J. Mendelsohn), 1951, **66,** 840 (ab)
—— joint, malignant; rare form: squamous cell carcinoma (A. Sonnenschein), 1952, **68,** 159 (ab)
—— laryngeal; diagnosis and treatment (D. S. Cunning), 1950, **63,** 956 (ab)
—— laryngeal, intrinsic and extrinsic; biological problems in x-ray therapy (A. Zuppinger), 1952, **68,** 162 (ab)
—— left suprarenal; gastric cardia shadow simulating (S. Schorr, J. Wildmann and A. Schwartz), 1952, **67,** 166 (ab)
—— leiomyoma of esophagus (R. A. Daniel, Jr. and R. B. Williams, Jr.), 1951, **65,** 827 (ab)

Tumors (Continued)
—— leiomyoma of esophagus (A. Goldman and H. Masters), 1951, **65,** 144 (ab)
—— leiomyoma of the lung (R. B. Williams, Jr. and R. A. Daniel, Jr.), 1951, **65,** 827 (ab)
—— leiomyosarcoma of stomach with excavation of center of tumor (J. H. Marks), 1952, **67,** *76
—— lipoma, large calcified, of thigh (P. N. Robson), 1951, **66,** 313 (ab)
—— lipoma of bone of intra-osseous origin (A. B. Dickson, W. W. Ayres, M. W. Mason and W. R. Miller), 1951, **66,** 993 (ab)
—— lipoma of corpus callosum; radiological diagnosis (D. Sutton), 1950, **64,** 516 (ab)
—— lipoma of corpus callosum; roentgen diagnosis (W. H. Mullen, Jr. and J. R. Hannan), 1951, **66,** 481 (ab)
—— lipomas of gastrointestinal tract (W. L. Palazzo), 1949, **62,** *823
—— lipomatosis of bone (S. F. Oosthuizen and J. Barnetson), 1949, **62,** 158 (ab)
—— lymphoid (H. F. Hare, W. C. Mulry and C. F. Sornberger), 1949, **62,** 308 (ab)
—— lymphoid; biologic effects of long continued irradiation (E. Lorenz), 1950, **63,** *179
—— lymphoid, development; inhibition by shielding and partial-body irradiation of mice (H. S. Kaplan and M. B. Brown), 1952, **68,** 867 (ab)
—— lymphoid; rotational therapy with 2 million volt roentgen therapy (J. G. Trump and others), 1951, **66,** *622
—— lymphoma of conjunctiva (M. D. Schulz and P. Heath), 1949, **62,** 280 (ab)
—— lymphomas, benign, of rectum (B. Deperrat), 1951, **66,** 501 (ab)
—— malignant blood vessels; 56 cases of angiosarcoma and Kaposi's sarcoma (W. D. McCarthy and G. T. Pack), 1951, **66,** 513 (ab)
—— malignant, chemotherapy of (G. Bickel), 1950, **64,** 369 (ab)
—— malignant, deep-seated; treatment with multiple port technic simulating rotation therapy (I. I. Kaplan and S. I. Etkin), 1949, **62,** 616 (ab)
—— malignant degeneration in multiple exostoses (J. Lebrun), 1951, **66,** 997 (ab)
—— malignant, genital; treatment, University Göttingen, 1937-1944 (H. Czech, R. K. Kepp and G. Wolthaus), 1951, **66,** 158 (ab)
—— malignant; nitrogen mustard therapy (T. Leucutia), 1949, **61,** 104 (E)
—— malignant, of bone (S. B. Prevo), 1951, **65,** 315 (ab)
—— malignant, of brain and brain stem; role of radiation therapy in control (C. B. Peirce and J. Bouchard), 1951, **66,** 514 (ab)
—— malignant, of duodenum (N. H. Schwartz, R. C. Swingle and E. A. Raymond), 1952, **67,** 157 (ab)
—— malignant, of eye; modern methods of treatment (C. E. Davies), 1951, **65,** 667 (ab)
—— malignant, of male breast (B. A. Payson and R. Rosh), 1950, **63,** 287 (ab)
—— malignant, of nasal cavity and sinuses (F. C. W. Capps and I. G. Williams), 1951, **66,** 286 (ab)
—— malignant, of nasopharynx (S. Kramer), 1951, **66,** 684 (ab)
—— malignant, of nasopharynx (T. E. Van Metre, Jr.), 1949, **62,** 151 (ab)
—— malignant, of ovary (J. B. Montgomery), 1949, **62,** 760 (ab)
—— malignant, of parathyroid glands (H. U. Stephenson, Jr.), 1950, **64,** 1029 (ab)
—— malignant, of reticuloendothelial system; radiotherapy (G. F. Gardini), 1951, **66,** 473 (bk. rev.)

Tumors (Continued)
—— malignant, of rhinopharynx; roentgen diagnosis (F. Baclesse and G. Dulac), 1949, **61,** 427 (ab)
—— malignant, of small intestine (H. P. Doub), 1949, **61,** 738 (ab)
—— malignant, of thyroid gland (B. McSwain and W. Diveley), 1950, **63,** 438 (ab)
—— malignant ovarian, pathology (C. W. Taylor), 1951, **65,** 847 (ab)
—— malignant, primary, of bone (scientific exhibit) (G. S. Lodwick, W. L. Thompson and L. C. Johnson), 1951, **66,** 820
—— malignant; production in rats with radioactive phosphorus (S. Koletsky, F. J. Bonte and H. L. Friedell), 1950, **64,** 905 (ab)
—— malignant; surface activity after radioactive phosphorus (A. Geffen, R. Loevinger and B. S. Wolf), 1952, **67,** 702 (ab)
—— malignant, of maxillary sinus; analysis of 47 fatalities (J. J. O'Keefe and L. H. Clerf), 1948, **59,** 144 (ab)
—— mediastinal (B. Blades), 1949, **62,** 750 (ab)
—— mediastinal (M. L. Bradford, H. W. Mahon and J. B. Grow), 1948, **60,** 141 (ab)
—— mediastinal, angiocardiography (C. T. Dotter and I. Steinberg), 1952, **67,** 850 (ab)
—— mediastinal, cardiospasm simulating (H. M. Perr), 1952, **67,** 850 (ab)
—— mediastinal, diagnosis, angiocardiography (A. Celius, C. R. Pacheco and H. del Castillo), 1951, **66,** 855 (ab)
—— mediastinal, of blood vascular origin (W. F. Seybold, J. R. McDonald, O. T. Clagett and S. W. Harrington), 1950, **64,** 329 (ab)
—— mediastinal; tomography (F. Aguirre Medrano and O. Aguirre Medrano), 1952, **67,** 508 (ab)
—— medulloblastoma cerebelli; diagnosis, treatment and survivals; 56 cases (F. D. Ingraham, O. T. Bailey and W. F. Barker), 1948, **60,** 850 (ab)
—— melanoma, malignant (P. J. Moir and others), 1948, **59,** 600 (ab)
—— meningiomas of sphenoidal ridge; roentgen diagnosis (E. P. Pendergrass, J. W. Hope and C. R. Perryman), 1950, **64,** 314 (ab)
—— meningiomas, olfactory groove (R. M. Lowman, R. Shapiro and L. C. Collins), 1948, **59,** *194
—— mesenchymal, of stomach (C. J. France and O. A. Brines), 1951, **66,** 665 (ab)
—— mesenchymoma, of mesenchymal derivatives (A. P. Stout), 1948, **60,** 858 (ab)
—— mesenteric cysts; report of 3 cases in one of which a calcified cyst was present (W. E. Burnett, G. P. Rosemond and R. M. Bucher), 1951, **65,** 648 (ab)
—— mesoblastic nephroma in adults (O. S. Culp and F. W. Hartman), 1949, **62,** 597 (ab)
—— metastatic chorionepithelioma of lung treated by lobectomy (H. C. Maier and H. C. Taylor), 1948, **59,** 759 (ab)
—— metastatic, of bone (S. L. Baker, F. C. Golding, A. L. Crooke and G. W. Blomfield), 1951, **65,** 313 (ab)
—— midline frontal lobe (R. M. Lowman, R. Shapiro and L. C. Collins), 1948, **59,** *194
—— mixed; carcinosarcoma, embryonal; 6 cases (F. L. Senger, A. L. L. Bell and J. C. Barnett), 1951, **65,** 162 (ab)
—— mixed; carcinosarcoma of esophagus (A. P. Stout, G. H. Humphreys, II, and L. A. Rottenberg), 1949, **61,** *461
—— mixed; carcinosarcoma of esophagus (N. Ende, P. Pizzolato, L. Raider and J. Ziskind), 1951, **65,** *227

Tumors (Continued)
—— mixed; carcinosarcoma of lung (M. Bergmann, L. V. Ackerman and R. L. Kemler), 1952, **68,** 500 (ab)
—— mixed, of palate; late results in 5 cases treated by telecurietherapy (M. Cutler), 1949, **61,** *82
—— mouse mammary, dbrB and C_3H; radiosensitivity (A. Goldfeder), 1952, **68,** 869 (ab)
—— mouse mammary, transplantable; response to local roentgen irradiation; transparent chamber observations (R. Merwin, G. H. Algire and H. S. Kaplan), 1952, **67,** 350 (ab)
—— mouse; radiation effects of high energy deuterons and alpha particles (C. A. Tobias, H. O. Anger and J. H. Lawrence), 1952, **67,** *18
—— muscle, primary in the lung; rooentgen study (R. S. Sherman and B. H. Malone), 1951, **65,** 505 (ab)
—— myeloma; examination of clinical material (H. Laake), 1950, **63,** 609 (ab)
—— nasopharyngeal (J. I. M. Black), 1950, **64,** 315 (ab)
—— nasopharyngeal, diagnosis and treatment (E. D. Davis), 1948, **60,** 699 (ab)
—— nasopharyngeal, diagnosis by laminagraphy (B. S. Epstein), 1952, **67,** 135 (ab)
—— neuroblastoma (F. A. Beneventi and F. P. Twinem), 1949, **61,** 129 (ab)
—— neuroblastoma of extrarenal origin (in a Bantu child) (S. Selby), 1951, **66,** 991 (ab)
—— neuroblastoma; review of literature and report of 6 year cure by roentgen therapy (S. M. Beck, Jr. and P. J. Howard), 1952, **68,** 322 (ab)
—— neurofibroma; giant prostate without symptoms (H. G. McGavran), 1949, **61,** 133 (ab)
—— neurofibrosarcoma of neck; case with 10 year survival after roentgen therapy (H. Marks), 1950, **64,** *470
—— neurofibrosarcoma, primary, of diaphragm (P. C. Samson and M. E. Childress), 1951, **66,** 851 (ab)
—— neurogenic, of stomach (J. P. West and G. Knox), 1950, **63,** 456 (ab)
—— neurogenic, of stomach (S. D. Weeder and J. W. Stayman, Jr.), 1951, **66,** 666 (ab)
—— neurogenous, within thorax (L. V. Ackerman and F. H. Taylor), 1952, **67,** 853 (ab)
—— neuromas, acoustic; roentgen manifestations (B. S. Epstein), 1950, **64,** *265
—— neuromas, plantar; Morton's toe (W. H. Bickel and M. B. Dockerty), 1948, **59,** 462 (ab)
—— occupational, of bladder; relationship of experimental carcinogenesis to (B. S. Abeshouse), 1952, **67,** 344 (ab)
—— of forehead and hairy scalp (P. G. Cevese and P. Braggion), 1950, **64,** 672 (ab)
—— of islets of Langerhans (R. Lopez-Kruger and M. B. Dockerty), 1948, **60,** 145 (ab)
—— of jejunum and ileum, primary (J. H. Eckel), 1950, **63,** 276 (ab)
—— of kidney and adrenal glands; radiation therapy (instruction course) (H. W. Jacox), 1949, **62,** 141
—— of ovary and pregnancy (D. Delascio and A. Guariento), 1951, **65,** 299 (ab)
—— of posterior fossa, upward transtentorial herniation of brain stem and cerebellum due to (A. Ecker), 1949, **61,** 264 (ab)
—— of upper third of stomach (M. Malenchini and J. Roca), 1948, **60,** *323
—— olfactory, esthesioneuro-epitheliomas (W. B. Seaman), 1952, **68,** 491 (ab)
—— orbit; diagnosis, linea innominata of skull; anatomical basis and significance (G. Liess), 1952, **68,** 489 (ab)

Tumors (Continued)
—— osteochondroma of coronoid process, restricted jaw motion (R. T. Schackelford and W. H. Brown), 1949, **62,** 764 (ab)
—— osteoclastoma, malignant; association with Paget's osteitis deformans (D. S. Russell), 1950, **63,** 603 (ab)
—— osteoclastoma; roentgen diagnosis and radiation therapy (E. Mignoli and U. Cocchi), 1951, **66,** 318 (ab)
—— osteoclastoma; study of 38 cases (B. W. Windeyer and P. B. Woodyatt), 1950, **63,** 602 (ab)
—— osteoclastoma; treatment by radiation (F. Ellis), 1950, **63,** 602 (ab)
—— osteogenic sarcoma involving the right kidney (H. G. Hamer and W. N. Wishard), 1948, **60,** 718 (ab)
—— osteoid osteoma (I. Ponseti and C. K. Barta), 1948, **59,** 764 (ab)
—— osteoid osteoma (F. A. Chandler and H. I. Kaell), 1950, **64,** 866 (ab)
—— osteoid osteoma; 20 cases (M. B. Dockerty, R. K. Ghormley and A. E. Jackson), 1951, **66,** 1006 (ab)
—— osteoid osteoma; 30 cases (M. S. Sherman), 1948, **60,** 283 (ab)
—— osteoid osteoma, with unusual symptoms (O. J. Vaughan-Jackson), 1951, **66,** 318 (ab)
—— osteoma of bone; new entity (C. F. Geschickter and M. M. Copeland), 1952, **67,** 880 (ab)
—— osteoma, with changes in adjacent joint (M. S. Sherman), 1948, **59,** 598 (ab)
—— ovarian Brenner; gross and microscopic pathology (J. W. Reagan), 1951, **66,** 668 (ab)
—— ovarian, estrogen producing, associated with malignant lesions of uterus (M. B. Dockerty and E. Mussey), 1951, **66,** 866 (ab)
—— ovarian, feminizing; endometrial carcinoma associated with (J. M. Ingram, Jr. and E. Novak), 1952, **67,** 673 (ab)
—— ovarian, malignant; treatment (M. C. Tod), 1952, **67,** 1031 (ab)
—— ovarian, masculinovoblastoma (W. H. H. Merivale), 1951, **66,** 668 (ab)
—— ovarian, in mice; effect of long continued irradiation (E. Lorenz), 1950, **63,** *183
—— ovarian, special malignancy of (D. N. Henderson), 1952, **68,** 515 (ab)
—— palpable, of gastrointestinal tract in region of the small pelvis; roentgen visualization (O. Walther), 1950, **64,** 544 (ab)
—— papillary, cystadenoma lymphomatosum (J. R. Brown), 1952, **68,** 140 (ab)
—— papillomas of breast; localization and treatment (H. C. Saltzstein and R. S. Pollick), 1950, **63,** 127 (ab)
—— parasagittal (R. M. Lowman, R. Shapiro and L. C. Collins), 1948, **59,** *194
—— parathyroid, associated with calcinosis of kidneys; (J. D. Kirschbaum and H. T. Wilson), 1952, **67,** 677 (ab)
—— parosteal osteoid chondroma (F. Leeser), 1948, **59,** *882
—— parotid gland, in children (J. M. Howard and others), 1951, **65,** 141 (ab)
—— parotid; histopathology; clinical behavior and end results (J. W. Kirklin, J. R. McDonald, S. W. Harrington and G. B. New), 1952, **67,** 840 (ab)
—— parotid; review of 93 cases (M. J. Smith and K. W. Stenstrom), 1950, **63,** 952 (ab)
—— pathology (R. A. Willis), 1948, **59,** 746 (bk. rev.)
—— pelvic, with ascites and hydrothorax (M. Calmenson, M. B. Dockerty and J. J. Bianco), 1948, **59,** 589 (ab)

Tumors (Continued)
—— pelvic, with ascites, hydrothorax or both (Meigs' syndrome) (K. Nelson and C. W. Dennison), 1952, **67,** 673 (ab)
—— pheochromocytoma; diagnosis by benzodioxane test, urinary hormone studies and nor-epinephrine assay (I. Koffler and others), 1951, **66,** 308 (ab)
—— pheochromocytoma in children (D. Hubble), 1952, **68,** 333 (ab)
—— pheochromocytoma, intrathoracic (R. H. Overholt, B. H. Ramsey and W. A. Meissner), 1950, **64,** 681 (ab)
—— pheochromocytoma of adrenal medulla (S. D. Spatt and D. M. Grayzel), 1949, **62,** 761 (ab)
—— pigmented skin, diagnosis (M. R. Ewing and T. Powell), 1952, **67,** 321 (ab)
—— pineal; diagnosis and treatment (G. Horrax), 1950, **63,** 933 (ab)
—— pineal, metastases (V. N. Tompkins, W. Haymaker and E. H. Campbell), 1950, **64,** 1025 (ab)
—— pinealomas (R. M. Lowman, R. Shapiro and L. C. Collins), 1948, **59,** *192
—— pituitary adenoma; roentgen therapy, correlation of tumor dose with response in 64 cases (A. L. Bachman and W. Harris), 1950, **64,** 356 (ab)
—— pituitary, bitemporal hemianopsia; roentgen effect (K. Overhof and T. Siekmann), 1951, **65,** 328 (ab)
—— pituitary; advanced atrophy and enlargement of sella turcica with destruction of sphenoid (B. S. Epstein and L. M. Davidoff), 1951, **66,** *884
—— pituitary chromophobe, of nasal cavity (S. Kay, J. K. Lees, A. P. Stout), 1951, **66,** 122 (ab)
—— pituitary, irradiation; mental deterioration after (H. D. Kerr), 1948, **60,** *356
—— pituitary, irradiation; results in 50 cases (H. D. Kerr), 1948, **60,** *348
—— pituitary; observations on large tumors which have spread widely beyond confines of sella turcica (H. C. Trumble), 1952, **67,** 842 (ab)
—— pituitary; signs and symptoms (M. C. Sosman), 1949, **62,** *6
—— pituitary; some problems related to origin and meaning of (J. Costero), 1949, **62,** 903 (ab)
—— plasma cell (G. Lumb and T. M. Prosser), 1948, **60,** 283 (ab)
—— plasma cell, of stomach (N. Ende), 1951, **66,** 300 (ab)
—— plasma cell, of mediastinum and lung (W. G. Childress and G. C. Adie), 1951, **65,** 645 (ab)
—— plasmocytoma, solitary extramedullary (C. E. Connor), 1948, **59,** 602 (ab)
—— plasmocytoma, solitary, of spine (R. W. Raven and R. A. Willis), 1950, **64,** 177 (ab)
—— plasmocytomas; histopathology and roentgen appearance (R. D'Alo), 1951, **65,** 315 (ab)
—— pleochromocytoma (C. A. Smith), 1949, **62,** 598 (ab)
—— pleural mesothelioma; roentgen diagnosis (H. Schwartz), 1950, **63,** *530
—— polypoid, of alimentary tract; roentgen demonstration and significance of pedicle in (B. R. Young and R. L. Scanlan), 1952, **68,** *894
—— premalignant lesions of ampulla of Vater (R. B. Cattell and J. P. Ludwig), 1950, **64,** 694 (ab)
—— presacral (R. B. McCarty), 1951, **65,** 319 (ab)
—— primary diffuse, of meninges (B. K. Black and J. W. Kernohan), 1951, **66,** 871 (ab)
—— primary hepatoma with metastases to long bone (D. S. Carnahan, Jr.), 1951, **66,** 662 (ab)
—— primary intrathoracic neurogenic (J. T. Godwin and others), 1951, **66,** 288 (ab)
—— primary malignant epithelial, of small bowel (A. G. Barsh), 1952, **68,** 150 (ab)

Tumors (Continued)
—— primary malignant neoplasms of vesicovaginal septum (H. R. Sauer, J. E. Macmanus and M. S. Blick), 1949, **62,** 615 (ab)
—— primary malignant, of nasopharynx (R. M. Geist, Jr. and U. V. Portmann), 1952, **68,** *262; correction, 1952, **68,** 664
—— primary, of brain and spinal cord; radiation therapy (instruction course) (E. H. Wood), 1951, **66,** 268
—— primary, of cranial bones (H. J. Vandenberg, Jr. and B. L. Coley), 1951, **65,** 822 (ab)
—— primary, of heart and pericardium and pericardial cysts; differential roentgen diagnosis (W. M. Loehr), 1952, **68,** *600
—— primary, of pericardium involving the myocardium; surgical removal (L. A. Hochberg and A. I. Robinson), 1951, **65,** 506 (ab)
—— primary, of small intestine (E. L. Jenkinson, W. H. Pfisterer and E. R. Seitz), 1951, **65,** 985 (ab)
—— primary, retroperitoneal; 33 cases (H. Newman and B. D. Pinck), 1951, **65,** 845 (ab)
—— pulmonary alveolar adenomatosis in man; is this same disease as Jaagsiekte in sheep? (D. A. Wood and P. H. Pierson), 1948, **59,** *445
—— pulmonary and mediastinal, diagnosis; angiocardiopneumography (M. Battezzati, F. Soave and A. Tagliaferro), 1951, **65,** 974 (ab)
—— pulmonary; angiocardiography (C. T. Dotter and I. Steinberg), 1952, **67,** 850 (ab)
—— pulmonary; biologic effects of long continued irradiation (E. Lorenz), 1950, **63,** *181
—— pulmonary; correlation of pathologic characteristics and clinical manifestations in unresectable and unexplored postmortem lung tumors (G. M. Bogardus, W. E. Adams and F. J. Phillips), 1951, **65,** 644 (ab)
—— pulmonary, diagnosis; alterations in thoracic cage (G. Gardella), 1949, **62,** 590 (ab)
—— pulmonary, in mice; carcinogenic action of the mustards (W. E. Heston), 1951, **66,** 1024 (ab)
—— pulmonary; pathologic and roentgenologic study of surgical lesions (scientific exhibit) (J. R. McDonald, L. B. Woolner, C. A. Good and A. H. Bulbulian), 1949, **62,** 736
—— pulmonary; pathologic clinical correlative study of full-size mounts from operated carcinomas (F. J. Phillips, C. E. Basinger and W. E. Adams), 1951, **65,** 644 (ab)
—— pulmonary, solitary; problem (D. B. Effler, B. Blades and E. Marks), 1950, **63,** 760 (ab)
—— quantitative analysis of direct and indirect action of x radiation on malignant cells (I. Lasnitzki), 1949, **61,** 287 (ab)
—— radiation therapy; changes in coagulability of blood; use of modified Waugh-Ruddick test (S. B. Silverman), 1949, **62,** *541
—— radiosensitivity of tumors autogenous to homozygous hosts; further studies (A. Goldfeder), 1950, **63,** 298 (ab)
—— radiosensitivity, relation to histology of tumor tissue (A. Gluecksmann), 1950, **63,** 624 (ab)
—— ranula (G. B. New), 1948, **59,** 756 (ab)
—— recurrent thrombophlebitis in obscure malignant tumor of lung (M. M. Fisher, L. A. Hockberg and N. D. Wilensky), 1952, **68,** 680 (ab)
—— renal (scientific exhibit) (R. A. MacArthur and H. C. Tellman), 1948, **60,** 556
—— renal and ureteral, new growths (E. W. Riches, I. H. Griffiths and A. C. Thackray), 1952, **68,** 838 (ab)
—— renal; bilateral hypernephroma (F. L. Senger, J. J. Bottone and G. E. Murray), 1948, **59,** 592 (ab)

Tumors (Continued)
—— renal; clinical and pathological study with special reference to the "hypernephroid" tumor (N. A. Harvey), 1948, **60,** 149 (ab)
—— renal; diagnosis in the adult (D. M. Davis), 1951, **65,** 654 (ab)
—— renal; diagnostic kidney puncture; aortography for differential diagnosis (K. Lindblom), 1952, **68,** *209
—— renal, in children (M. White), 1952, **68,** 839 (ab)
—— renal, malignant (B. S. Abeshouse and T. Weinberg), 1948, **59,** 149 (ab)
—— renal, malignant; diagnosis and treatment (F. Berner), 1951, **66,** 987 (ab)
—— renal, malignant; difficulties in diagnosis (J. Cayotte), 1951, **65,** 655 (ab)
—— renal; morphology and symptomatology (G. W. Günther), 1951, **65,** 301 (ab)
—— renal; prognosis and problems (C. L. Deming), 1948, **59,** 455 (ab)
—— renal; relationship of solitary cyst of kidney to (A. Walsh), 1952, **68,** 839 (ab)
—— renal; replacement lipomatosis and its simulation (W. A. Simril and D. K. Rose), 1951, **65,** 302 (ab)
—— renal; review of nephroma and 10 nephrectomies in 1949 (A. W. Adams), 1951, **66,** 988 (ab)
—— renal, secondary metastatic pulsations from (B. C. Nolle, Jr.), 1948, **59,** 592 (ab)
—— renal; stratigraphy and perirenal air insufflation (R. Camerini and A. Lura), 1951, **66,** 987 (ab)
—— renal; treatment, radiotherapy (A. A. Charteris), 1952, **68,** 839 (ab)
—— retinoblastoma, metastases to long bones; roentgen features (R. E. Rowen), 1948, **59,** 762 (ab)
—— retinoblastoma; roentgen diagnosis (H. Fulton), 1950, **64,** *735
—— retroperitoneal in infants and children (W. H. Snyder, Jr., C. A. Kruse, E. M. Greaney and L. Chaffin), 1952, **67,** 868 (ab)
—— retroperitoneal, primary (B. A. Donnelly), 1948, **59,** 603 (ab)
—— retroperitoneal teratomas in infancy and childhood (E. E. Arnheim), 1952, **68,** 316 (ab)
—— retrorectal (R. J. Jackman, P. L. Clark, III and N. D. Smith), 1952, **67,** 161 (ab)
—— roentgen irradiation; excretion of 17-ketosteroids during therapeutic roentgen irradiation (W. Schlungbaum), 1952, **68,** 535 (ab)
—— role of tumor bed in treatment of squamous-cell cancers by irradiation (A. Glucksmann), 1951, **65,** 667 (ab)
—— rotation therapy, theory and clinical applications (S. J. Hawley), 1949, **62,** 616 (ab)
—— sacrococcygeal chordoma (F. Gentil and B. L. Coley), 1948, **60,** 720 (ab)
—— sacrococcygeal teratomata in infancy (W. Riker and W. J. Potts), 1949, **62,** 307 (ab)
—— salivary gland (R. McWhirter), 1951, **66,** 160 (ab)
—— sarcoma, infiltrating; distinctions between gastric sarcoma and carcinoma (A. Bassler and A. G. Peters), 1949, **62,** 592 (ab)
—— sarcoma of uterus (S. B. Reich), 1949, **61,** *830
—— sarcoma, reticulum cell, of stomach (I. I. Cash and A. E. Rappoport), 1948, **59,** 451 (ab)
—— schwannoma of pharynx (P. Viole), 1948, **59,** 145 (ab)
—— schwannoma of pharynx with paralysis of vocal cord (F. Turchik), 1948, **59,** 146 (ab)
—— schwannoma of stomach (P. Anex), 1951, **66,** 129 (ab)
—— screening for chest pathology using mass x-ray survey technic (G. H. Gowen and B. Frank), 1952, **68,** 1004 (ab)

Tumors (Continued)
—— septum pellucidum (R. M. Lowman, R. Shapiro and L. C. Collins), 1948, **59,** *181
—— simultaneous cross-radiation (M. A. Loebell), 1949, **61,** 580 (ab)
—— skeletal hemangio-endothelioma (E. D. W. Hauser and G. A. Constant), 1949, **61,** 134 (ab)
—— small intestinal (M. O. Rouse and W. S. Reynolds), 1951, **65,** 158 (ab)
—— small intestinal (H. A. Weinberger and R. M. Paltauf), 1950, **63,** 276 (ab)
—— small intestinal, benign non-obstructing (E. C. Osgood), 1950, **63,** *76
—— small intestinal, primary (C. C. Dundon), 1948, **59,** *492
—— small intestinal; roentgen examination by duodenal tube (A. Lura), 1952, **67,** 157 (ab)
—— small intestinal; 2 cases of carcinoma of jejunum (P. Delano), 1948, **59,** *685
—— so-called retinal anlage tumors; 3rd case (H. Martin and F. W. Foote, Jr.), 1952, **67,** 502 (ab)
—— soft tissues; natural history and treatment (S. Cade), 1951, **66,** 682 (ab)
—— soft tissues; pathology and classification (A. P. Stout), 1951, **66,** *903
—— solitary intrathoracic neurofibroma (A. S. W. Touroff and S. O. Sapin), 1950, **64,** 325 (ab)
—— solitary localized mesothelioma of pleura (A. P. Stout and G. M. Himadi), 1951, **66,** 855 (ab)
—— solitary, of chest; differential diagnosis in 50 proved cases (R. K. Arbuckle), 1949, **62,** *52
—— spheno-orbital space; unilateral changes in anterior clinoid due to (H. Fischgold, D. Prot and A. Fissore), 1952, **67,** 134 (ab)
—— spinal (J. P. Guri), 1949, **62,** 305 (ab)
—— spinal cord (J. R. Hannan, C. R. Hughes and B. E. Mulvey), 1950, **64,** 342 (ab)
—— spinal cord; contrast myelography, past and present (J. D. Camp), 1951, **65,** 303 (ab)
—— spinal cord; primary extramedullary gliomas (I. S. Cooper, W. M. Craig and J. W. Kernohan), 1952, **67,** 168 (ab)
—— spinal, myelography; discussion (H. Davies, R. G. Reid and G. K. Tutton), 1952, **68,** 519 (ab)
—— spindle-cell, of gastrointestinal tract (W. L. Palazzo and M. D. Schulz), 1950, **63,** 133 (ab)
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—— new growths (E. W. Riches, I. H. Griffiths and A. C. Thackray), 1952, **68,** 838 (ab)
—— obstruction, in benign and malignant gynecologic lesions; incidence (J. P. Long and J. B. Montgomery), 1951, **65,** 160 (ab)
—— obstruction in carcinoma of cervix (C. W. Aldridge and J. T. Mason), 1951, **66,** 869 (ab)
—— postcaval; successful surgical repair (R. O. Olson and G. Austen, Jr.), 1951, **65,** 991 (ab)
—— primary benign neoplasm (J. M. Edelstein and S. M. Marcus), 1949, **61,** 133 (ab)
—— primary cancer (F. G. Harrison, H. L. Warres and J. A. Fust), 1950, **64,** 340 (ab)
—— primary cancer (F. E. Stock and C. Wells), 1948, **60,** 719 (ab)
—— primary papillary carcinoma; 2 cases (N. G. Hale), 1949, **61,** 132 (ab)
—— pyeloureteral dilatation of pregnancy (in rhesus monkeys) after death of fetus; experimental study (G. van Wagenen and R. H. Jenkins), 1950, **63,** 625 (ab)
—— renal and ureteral responses to obstruction (J. F. McCahey), 1951, **65,** 991 (ab)
—— retrocaval (R. Lich, Jr. and O. Grant), 1950, **63,** 780 (ab)
—— retrocaval (C. R. Schmidt, D. W. Huebert and J. M. Beazell), 1951, **66,** 987 (ab)
—— retrocaval (S. A. Sabatini and G. Wessler), 1951, **66,** 670 (ab)
—— tumors (H. L. Douglass), 1951, **65,** 848 (ab)
—— tumors; roentgen diagnostic features (R. B. Holmes), 1952, **67,** 678 (ab)
—— ureteral diverticulum (H. C. Harlin and H. D. Atkinson), 1951, **66,** 504 (ab)
—— ureteral reflux in normal child (H. M. Gibson), 1950, **63,** 781 (ab)
—— ureteric dysmenorrhoea (G. D. Read), 1952, **67,** 164 (ab)
—— ureteroceles; typical roentgen picture (U. Rudhe), 1949, **62,** 294 (ab)
—— ureteropelvic junction obstruction, diagnosis (scientific exhibit) (W. C. MacCarty, Jr. and W. L. McLaughlin), 1951, **66,** 821
—— ureteropelvic juncture obstruction; translumbar aortography (A. K. Doss), 1948, **59,** 592 (ab)
—— ureteropelvic obstructions; symptoms and treatment (R. B. Henline and C. J. Hawes), 1949, **62,** 292 (ab)
—— ureterorenal suppression and stasis during intravenous urography; roentgen signs (R. Coliez), 1948, **60,** 576 (ab)
—— ureterosigmoid transplantation; spontaneous pneumourography after (R. E. Parks), 1951, **66,** *222

Urethane and nitrogen mustard treatment of nasopharyngeal carcinoma (F. E. Stock), 1952, **67,** 339 (ab)
—— effect on malignant diseases (L. Berman and A. Axelrod), 1949, **61,** 286 (ab)
—— induced lymphopenia in normal and adrenalectomized rats (A. Dury and E. D. Robin), 1950, **63,** 147 (ab)
—— treatment (T. Leucutia), 1948, **59,** 421 (E)
—— treatment; effect on skeletal disease: multiple myeloma (R. W. Rundles and R. J. Reeves), 1950, **64,** *799
—— treatment of malignant neoplastic diseases (E. H. Reinhard, J. T. Good and E. Martin), 1950, **63,** 949 (ab)
—— treatment of multiple myeloma (C. Weder), 1951, **65,** 678 (ab)
—— treatment of multiple myeloma (W. J. Harrington and W. C. Moloney), 1950, **64,** 896 (ab)
—— treatment of multiple myeloma (R. D. Haines, W. N. Powell and H. A. Bailey), 1952, **67,** 1033 (ab)
—— treatment of multiple myeloma (scientific exhibit) (W. Rundles and R. J. Reeves), 1949, **62,** 742
—— treatment of multiple myeloma; 66 cases (W. F. Luttgens and E. D. Bayrd), 1952, **68,** 541 (ab)
—— treatment of mycosis fungoides (B. J. Kennedy, I. T. Nathanson and J. C. Aub), 1950, **64,** 897 (ab)
—— use in neoplastic diseases (M. B. Shimkin and H. R. Bierman), 1950, **64,** 367 (ab)
Urethra, anterior, in male, diverticula of (B. S. Abeshouse), 1952, **68,** 689 (ab)
—— cancer (E. W. Riches and T. H. Cullen), 1952, **68,** 518 (ab)
—— congenital recto-urethral fistulas (L. Cifuentes Delatte and I. Albala), 1952, **68,** 837 (ab)
—— demonstration by means of water soluble contrast medium (N. P. G. Edling), 1951, **65,** 303 (ab)
—— double contrast urethrography (S. Mattoso Filho), 1950, **64,** 173 (ab)
—— duplication; 2 cases (R. E. Gross and T. C. Moore), 1951, **65,** 656 (ab)
—— female, cancer; radium therapy (E. R. Fricke and J. T. McMillan), 1950, **63,** 615 (ab)
—— infection; venous invasion after urethrograms made with lipiodol (E. G. Crabtree), 1948, **59,** 594 (ab)
—— male, papillomatosis; radium treatment (E. Heinke), 1951, **66,** 159 (ab)
—— male, primary cancer (E. M. Nanson), 1952, **68,** 321 (ab)
—— perforations in transurethral operations; technic for immediate diagnosis and management of extravasations (H. R. Kenyon), 1951, **65,** 165 (ab)
—— prostatic, diseases; cystourethrography (R. C. Thumann, Jr. and D. Randall), 1950, **64,** *640
—— radiological exploration (B. Fey), 1950, **63,** 929 (bk. rev.)
—— recto-urethral fistula (R. K. Magee), 1949, **61,** 432 (ab)
—— stricture in children (M. F. Campbell), 1950, **64,** 173 (ab)
—— urethral calculus in male with particular reference to giant primary stones (O. S. Lowsley and A. Gentile), 1950, **64,** 703 (ab)
—— urethrography in infants and children (L. E. Hackworth), 1949, **62,** 762 (ab)
Urethrocystography in the male child (M. L. Brodny and S. A. Robins), 1949, **62,** 452 (ab)
Urethrography (R. Guichard and H. Duvergey), 1950, **63,** 268 (bk. rev.)
—— double contrast (S. Mattoso Filho), 1950, **64,** 173 (ab)
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—— fatal embolism after (H. Gaudin), 1950, **64,** 701 (ab)
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—— lipiodol urethrograms, venous invasion from (E. G. Crabtree), 1948, **59,** 594 (ab)
—— topographic (T. L. Ball, R. G. Douglas and L. L. Fulkerson), 1951, **65,** 992 (ab)
Urinary Tract: See also Genitals; Genitourinary Tract
—— accidental filling during barium enema (S. P. Perry and W. D. Haden), 1949, **62,** 294 (ab)
—— calculi and radioactivity (D. S. Cristol A. E. Bothe and P. W. Grotzinger), 1949, **62,** 772 (ab)
—— calculi associated with recumbency (D. Swartz and J. R. Taylor), 1951, **66,** 670 (ab)
—— calculi in recumbent patients (J. C. Kimbrough, J. C. Denslow and D. K. Worgan), 1951, **65,** 166 (ab)
—— changes in cervical carcinoma before and after radiation therapy (W. K. Diehl and J. M. Hundley), 1949, **62,** 763 (ab)
—— complications after irradiation of pelvic viscera (W. C. White and F. W. Finn), 1952, **67,** 1031 (ab)
—— complications after use of low intensity, long radium element needles in treatment of cancer of cervix uteri (G. W. Waterman and E. M. Tracy), 1948, **60,** *790
—— complications incidental to radium treatment of cancer of cervix uteri (W. E. Howes), 1948, **60,** *398
—— complications of filariasis; radiation therapy (P. Huard, A. Olivier and Tran-Anh), 1952, **68,** 851 (ab)
—— congenital recto-urinary fistula (R. L. Stewart and J. A. Ross), 1952, **67,** 1019 (ab)
—— diagnostic urography (instruction course) (F. O. Coe), 1952, **68,** 128
—— disease in vesical neck obstructions (W. J. Engel), 1949, **62,** *668
—— diseases; urethrocystography in the male child (M. L. Brodny and S. A. Robins), 1949, **62,** 452 (ab)
—— disorders caused by foreign body in duodenum (E. T. McEnery and P. F. Fox), 1948, **59,** 305 (ab)
—— disorders related to and clinically simulating gynecological pathology (W. J. Reich, M. J. Nechtow and A. M. Kurzon), 1952, **68,** 518 (ab)
—— effect of pregnancy on (G. C. Prather), 1951, **66,** 868 (ab)
—— effect of psoas abscesses on (N. Lauge-Hansen), 1952, **67,** *788
—— improved pediatric excretory urography (L. P. Matthei), 1951, **66,** 306 (ab)
—— infection and cervical osteomyelitis caused by Escherichia coli (A. Hurwitz and H. A. Albertson), 1951, **66,** 307 (ab)
—— infections; sterile pyuria (K. C. Hardesty), 1949, **61,** *711
—— intravenous urography in study of vesical neck obstructions (W. J. Engel), 1949, **62,** *661
—— lower; radiological exploration (B. Fey), 1950, **63,** 929 (bk. rev.)
—— neuroblastoma (F. G. Harrison, H. L. Warres and J. A. Fust), 1951, **65,** 300 (ab)
—— obstruction, renal and ureteral responses to (J. F. McCahey), 1951, **65,** 991 (ab)
—— pathological conditions in children; improved excretory urography (L. P. Matthei), 1951, **66,** 306 (ab)
—— pneumography under spinal anesthesia; air embolism (R. Budnick), 1952, **67,** 528 (ab)

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—— pneumopyelography (J. S. Ritter and W. H. Shehadi), 1952, **68,** 689 (ab)
—— purpura of urogenital tract (K. W. Martin), 1952, **68,** 320 (ab)
—— roentgen examination; unusual problems (W. L. Stilson and P. H. Deeb), 1951, **65,** 990 (ab)
—— roentgenologic examination (instruction course) (H. O. Peterson), 1948, **60,** 130; 1949, **62,** 138
—— tumors in infants and children; radiologic diagnosis (M. F. Campbell), 1951, **65,** 848 (ab)
—— upper, abnormal function (J. C. Anderson), 1952, **68,** 688 (ab)
—— upper; condition in rigidity of sphincter of bladder (G. W. Günther), 1952, **67,** 677 (ab)
—— upper; status in vesical neck obstructions (W. J. Engel), 1949, **62,** *667
Urination, disorders; anuria after radiation therapy in leukemia (H. Lear and G. D. Oppenheimer), 1951, **65,** 666 (ab)
Urine, alkapton; alkaptonuric arthritis (S. Sacks), 1952, **68,** 157 (ab)
—— analysis and elimination of strontium after inhalation incident (F. P. Cowan, L. B. Farabee and R. A. Love), 1952, **67,** *806
—— cancer cells, detection; clinical appraisal of Papanicolaou method (C. J. Schmidlapp, II and V. F. Marshall), 1948, **60,** 577 (ab)
—— excretion of niacin and riboflavin in patients with malignant diseases; effect of radiation therapy; relationship to radiation sickness (J. L. Jarvis and D. Cayer), 1950, **63,** 611 (ab)
—— excretion of radioactive mercury after oral administration of a mercurial diuretic; tracer studies (W. J. Overman, W. H. Gordon, Jr. and G. E. Burch), 1951, **65,** 336 (ab)
—— excretion of radioactive iodine as measure of thyroid activity (A. S. Mason), 1951, **65,** 671 (ab)
—— excretion studies with radioactive penicillin (in cats) (S. Rowlands, D. Rowley and H. D. Stewart), 1949, **62,** 465 (ab)
—— exfoliated cancer cells; stained smears in diagnosis of cancer of genitourinary tract (R. Chute and D. W. Williams), 1948, **60,** 577 (ab)
—— fluoride excretion among workmen engaged in manufacture of inorganic fluorides (E. J. Largent, P. G. Bovard and F. F. Heyroth), 1951, **65,** *42
—— gas; spontaneous pneumaturia (J. T. Danzer), 1951, **66,** 306 (ab)
—— incontinence; topographic urethrography (T. L. Ball, R. G. Douglas and L. L. Fulkerson), 1951, **65,** 992 (ab)
—— phosphate exchange between urine in renal pelvis and renal calculi containing phosphate; study with radioactive phosphorus (J. A. Benjamin, W. F. Neuman, H. E. Thompson and C. Waterhouse), 1951, **65,** 336 (ab)
—— porphyria; consideration in surgical diagnosis (G. L. Calvy), 1951, **65,** 980 (ab)
—— radiophosphorus partition in Hodgkin's disease and lymphosarcoma before and after treatment with nitrogen mustard (S. P. Masouredis and others), 1952, **67,** 334 (ab)
Urist, M. R.: Complete dislocations of acromioclavicular joint; nature of traumatic lesion and effective methods of treatment with analysis of 41 cases, 1948, **59,** 458 (ab)
Urograms, excretory delayed, acceleration; influence of ingested ice water on kidney function (F. A. Herzan and F. W. O'Brien), 1952, **68,** *104
—— in renal ptosis (W. F. Braasch, L. F. Greene and R. Goyanna), 1949, **62,** 597 (ab)
Urography, clinical; atlas and textbook of roentgenologic diagnosis (W. F. Braasch and J. L. Emmett), 1952, **67,** 832 (bk. rev.)
—— diagnostic (instruction course) (F. O. Coe), 1951, **66,** 268, 269; 1952, **68,** 128
—— ditopax, new excretory medium; clinical report on 1280 injections (W. M. Kearns, H. Hefke and S. A. Morton), 1948, **59,** 309 (ab)
—— effect on intradermal and ocular methods of testing for sensitivity to diodrast (A. G. Singer, Jr.), 1948, **59,** *728
—— excretion, fornix backflow; significance in differential diagnosis of tuberculosis of kidney (A. Lindbom), 1948, **59,** 150 (ab)
—— excretion; clinical trial of new contrast medium (sodium 3-acetylamino-2,4,6-triiodobenzoate) (L. L. Robbins, F. H. Colby, J. L. Sosman and W. R. Eyler), 1952, **68,** 153 (ab)
—— excretory vs. retrograde; ureteral compression technic (J. B. Beare and C. A. Wattenberg), 1951, **66,** 506 (ab)
—— influence of blood pressure in urographic examination (I. Wickbom), 1951, **66,** 136 (ab)
—— intravenous; diagnosis of obstructive hydronephrosis produced by aberrant blood vessels (J. Abowitz), 1949, **62,** 293 (ab)
—— intravenous, in acute renal colic (T. J. Florence, W. S. Howland and H. S. Weens), 1948, **59,** 309 (ab)
—— intravenous, in renal tuberculosis (N. O. Ericsson and A. Lindbom), 1951, **66,** 505 (ab)
—— intravenous, in study of vesical neck obstructions (W. J. Engel), 1949, **62,** *661
—— intravenous; roentgen signs of stasis and ureterorenal suppression during (R. Coliez), 1948, **60,** 576 (ab)
—— intravenous contrast media; controlled study of diodrast and neo-iopax (W. H. Mullen, Jr. and C. R. Hughes), 1952, **68,** *903
—— neo-iopax; relationship between degree of reactions and time of intravenous injection (J. L. Armbruster and H. W. Hefke), 1952, **68,** *915
—— pediatric excretory (L. P. Matthei), 1951, **66,** 306 (ab)
—— roentgen appearance of central fat tissue of kidney (F. Windholz), 1952, **67,** 167 (ab)
—— subcutaneous; new method using 70% urokon and hyaluronidase (J. E. Byrne and W. F. Melick), 1952, **67,** 676 (ab)
Urokon: See Contrast Medium
Urology, abdominal aortography (I. H. Griffiths), 1951, **66,** 1009 (ab)
—— American Urological Association award, 1948, **60,** 562; 1950, **64,** 505; 1951, **66,** 981; 1952, **68,** 663
—— essentials of (J. C. Ainsworth-Davis), 1951, **66,** 472 (bk. rev.)
—— Registry of American Urological Association study of bladder tumors (A. L. Dean and J. E. Ash), 1951, **65,** 303 (ab)
—— urologic roentgenology (M. B. Wesson), 1951, **65,** 288 (bk. rev.)
—— urological aspects of gynecology (R. W. Te Linde), 1951, **66,** 305 (ab)
—— urological disorders related to and clinically simulating gynecological pathology (W. J. Reich, M. J. Nechtow and A. M. Kurzon), 1952, **68,** 518 (ab)
Urrutia, J. M., and **Lavezzo, P.:** Pharmaco-cholangiography in the diagnosis of odditis, 1951, **66,** 866 (ab)
Usategui, A., and **Antonetti Muniz, C.:** Bronchial obstruction in tuberculosis, 1952, **68,** 996 (ab)
Ustvedt, H. J.: Further investigations respecting bilateral hilar adenitis, 1950, **63,** 445 (ab)

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—— Further investigations respecting bilateral hilar adenitis, 1950, **63,** 945 (ab)
Uterogram in sterility studies (R. C. Hildreth and C. P. Chrest), 1951, **65,** 298 (ab)
Uterosalpingography (scientific exhibit) (T. M. Fullenlove), 1949, **62,** 741
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—— abnormalities, so-called angular pregnancy (A. Granjon and A. M. Beau), 1950, **64,** 697 (ab)
—— adenocarcinoma; diagnostic and therapeutic considerations (L. Mayer and C. Mayer), 1950, **64,** 891 (ab)
—— adenocarcinoma, pulmonary metastases; roentgen androgen therapy (J. H. Freed, E. P. Pendergrass and J. W. Carnwath), 1951, **65,** *596
—— cancer, background (J. A. Corscaden and S. B. Gusberg), 1948, **59,** 591 (ab)
—— cancer after radiation therapy for benign uterine lesions (F. R. Smith and L. Bowden), 1948, **59,** *796
—— cancer of cervical stump; radium treatment (W. E. Costolow), 1950, **63,** 294 (ab)
—— cancer of corpus; clinical, pathological and etiological aspects (H. Speert), 1950, **63,** 134 (ab)
—— cancer of corpus; comparative study of various radiation methods as adjuncts to surgery (T. Leucutia), 1952, **68,** *770
—— cancer of corpus in young women (M. B. Dockerty, S. B. Lovelady and G. T. Foust, Jr.), 1952, **67,** 674 (ab)
—— cancer of corpus; radiation treatment (scientific exhibit) (W. E. Costolow, J. F. Nolan, G. C. Budenz and L. Dusault), 1952, **68,** 826
—— cancer of corpus; radium therapy at Gynecologic Clinic, University of Göttingen (H. Czech), 1952, **67,** 333 (ab)
—— cancer of corpus; treatment; various methods; relationship of age to results (T. Leucutia), 1952, **68,** *773
—— cancer, primary, following healing of previous carcinoma of same organ treated by radiotherapy (J. M. Fernandez-Colmiero), 1950, **63,** 958 (ab)
—— cancer; primary uterine malignancy (J. E. Hall, J. Pepe and J. Tortora), 1951, **65,** 327 (ab)
—— cancer; radical hysterectomy with bilateral pelvic lymph node dissections; 100 patients operated on 5 or more years ago (J. V. Meigs), 1952, **68,** 516 (ab)
—— cancer; radiotherapeutic treatment (J. Heyman), 1948, **59,** 603 (ab)
—— cervix; adenocarcinoma; histologic, chemical and therapeutic results (Limburg and K. Thomsen), 1950, **64,** 125 (bk. rev.)
—— cervix, adenocarcinoma; pathology and treatment (S. B. Gusberg and J. A. Corscaden), 1952, **68,** 335 (ab)
—— cervix, adenocarcinomas; radiation effects on (C. P. Cherry), 1952, **68,** 533 (ab)
—— cervix, cancer (N. S. Miller), 1949, **62,** 461 (ab)
—— cervix, cancer (F. Truelsen), 1950, **63,** 752 (bk. rev.)
—— cervix, cancer, advanced; roentgen therapy alone including extensive postoperative recurrences (F. Baclesse), 1950, **63,** *252
—— cervix, cancer, after hysterectomy (J. F. Hynes), 1948, **60,** *371
—— cervix, cancer; age incidence; review of 296 cases, 1935-1944 (J. F. Hynes), 1948, **60,** *370
—— cervix, cancer; analysis of 790 cases treated over 5 years ago (L. A. Pomeroy), 1948, **60,** *387
—— cervix, cancer and fertility (A. G. Gilliam), 1952, **68,** 687 (ab)

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—— cervix, cancer, and pregnancy (J. F. Hynes), 1948, **60,** *371
—— cervix, cancer, and syphilis (J. F. Hynes), 1948, **60,** *371
—— cervix, cancer, associated with pregnancy (W. O. Johnson and B. J. Weinfurtner), 1951, **66,** 154 (ab)
—— cervix, cancer; attempted heterologous transplantation (R. B. Scott and C. B. Brack), 1950, **63,** 964 (ab)
—— cervix, cancer; beta glucuronidase studies (S. C. Kasdon, W. H. Fishman and F. Homburger), 1951, **66,** 503 (ab)
—— cervix, cancer; bone metastases occurring in 600 cases (scientific exhibit) (E. L. Lame and J. H. Hanson), 1949, **62,** 741
—— cervix, cancer; causes of death in (R. R. De-Alvarez), 1948, **59,** 591 (ab)
—— cervix, cancer; classification (G. A. Galvin), 1951, **65,** 669 (ab)
—— cervix, cancer; clinical diagnosis (A. N. Arneson), 1949, **61,** 740 (ab)
—— cervix, cancer; colpostat for radium treatment (S. DiPalma), 1952, **67,** 325 (ab)
—— cervix, cancer; comparison of accuracy in diagnosis of vaginal smear and biopsy (R. M. Graham, S. H. Sturgis and J. McGraw), 1949, **62,** 761 (ab)
—— cervix, cancer, complicating pregnancy (J. C. Hirst), 1950, **64,** 170 (ab)
—— cervix, cancer, complicating procidentia uteri (D. L. Ashton), 1949, **62,** 760 (ab)
—— cervix, cancer; complications after use of low intensity, long radium element needles in treatment (G. W. Waterman and E. M. Tracy), 1948, **60,** *788
—— cervix, cancer; control (C. MacFarland, M. C. Sturgis and F. S. Fetterman), 1949, **62,** 610 (ab)
—— cervix, cancer; correlation of histologic grade, clinical stage and radiation response (R. W. Kistner and A. T. Hertig), 1952, **67,** 696 (ab)
—— cervix, cancer; cytology and histology; 2 complementary methods for diagnosis (J. E. Ayre), 1951, **66,** 502 (ab)
—— cervix, cancer; cytology; 4 year study (W. K. Cuyler and others), 1952, **68,** 320 (ab)
—— cervix, cancer; deep external x-ray irradiation treatment by long element needles (G. W. Waterman and W. A. Reid), 1950, **63,** 290 (ab)
—— cervix, cancer; detection by coning biopsy; survey of 500 normal women (S. B. Gusberg), 1952, **67,** 164 (ab)
—— cervix, cancer; detection; evaluation of comparative exfoliative cytologic diagnosis; study of 10,000 cases (H. E. Neiburgs and E. R. Pund), 1950, **64,** 168 (ab)
—— cervix, cancer; diagnosis and treatment; review of 296 cases, 1935-1944 (J. F. Hynes), 1948, **60,** *370
—— cervix, cancer; diagnosis of early lesion (G. A. Galvin), 1951, **65,** 668 (ab)
—— cervix, cancer; disordered growth response to inflammation in presence of estrogen excess and nutritional deficiency; cytological, clinical, nutritional and pathologic studies (J. E. Ayre), 1948, **60,** 147 (ab)
—— cervix, cancer; dispersion (E. Henriksen), 1951, **65,** 669 (ab)
—— cervix, cancer; dosage distribution and dosage (W. J. Meredith), 1951, **65,** 327 (ab)
—— cervix, cancer; dose distribution treatment by parametrial needles and intracervical tandem (scientific exhibit) (R. L. Nichols and J. W. J. Carpender), 1950, **64,** 851

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—— cervix, cancer, during pregnancy, with special reference to comparison of sponge biopsies with diagnostic Papanicolaou smears (J. C. Hirst), 1952, **67,** 675 (ab)

—— cervix, cancer; early diagnosis (G. W. Douglas and W. E. Studdiford, 1951, **66,** 669 (ab)

—— cervix, cancer; early diagnosis and its implications (A. F. Anderson), 1950, **64,** 698 (ab)

—— cervix, cancer; effect of radiation on metastatic pelvic lymph node involvement (W. E. Brown, I. Meschan, E. Kerekes and J. M. Sadler), 1952, **68,** 533 (ab)

—— cervix, cancer; endocrine factors (H. E. Nieburgs), 1952, **67,** 1016 (ab)

—— cervix, cancer; factors influencing prognosis in treatment (W. E. Costolow and J. F. Nolan), 1952, **67,** 332 (ab)

—— cervix, cancer; growth and spread (G. H. Twombly and S. di Palma), 1951, **65,** *691

—— cervix, cancer, in an urban population (A. W. Diddle and T. R. Bennett), 1949, **62,** 462 (ab)

—— cervix, cancer; incidence in the Negro, 1940-1944; 302 cases (B. W. Robinson), 1951, **66,** *784

—— cervix, cancer; individualized interstitial irradiation using cobalt 60 in needles inserted through a lucite template; progress report (J. L. Morton and others), 1951, **65,** *737

—— cervix, cancer; individualizing tumor dose by means of simple caliper (J. B. Jarvis), 1950, **63,** 958 (ab)

—— cervix, cancer; influence of number of pregnancies on development (W. E. Howes), 1948, **60,** *392

—— cervix, cancer; International Classification (Table I) (J. A. Corscaden and R. A. Butz), 1952, **68,** *47

—— cervix, cancer; intracavitary radium therapy (H. H. Bowing), 1949, **61,** 874 (ab)

—— cervix, cancer; interstitial irradiation, precision dosage (J. A. Corscaden, S. B. Gusberg and C. P. Donlan), 1948, **60,** *522

—— cervix, cancer; interstitial radium (G. W. Waterman and S. I. Raphael), 1952, **68,** *58

—— cervix, cancer; intracavitary radium treatment, physical aspects; new applicator (G. J. Neary), 1949, **61,** 877 (ab)

—— cervix, cancer, intraepithelial (L. A. Kaufmann, W. K. Cuyler and R. A. Ross), 1951, **66,** 305 (ab)

—— cervix, cancer; intravaginal roentgen and radium therapy, improved methods (E. C. Ernst), 1949, **61,** 875 (ab)

—— cervix, cancer; intravaginal roentgen therapy (G. H. Twombly and J. A. Chamberlin), 1950, **63,** 291 (ab)

—— cervix, cancer; introduction to symposium (A. N. Arneson), 1951, **65,** 668 (ab)

—— cervix, cancer, invading urinary bladder; treatment, partial pelvic evisceration (J. K. Cromer), 1952, **68,** 518 (ab)

—— cervix, cancer; irradiation or operation? (J. Ries), 1951, **66,** 326 (ab)

—— cervix, cancer; irradiation treatment with improved expanding type of radium applicator (E. C. Ernst), 1950, **63,** 290 (ab)

—— cervix, cancer; late recurrence after radiation therapy (H. Speert), 1949, **61,** 877 (ab)

—— cervix, cancer; necropsy findings; implications for treatment (A. Brunschwig and V. Pierce), 1950, **63,** 778 (ab)

—— cervix, cancer; need for combined radiation and surgical treatment (A. P. Barry), 1951, **66,** 1015 (ab)

—— cervix, cancer; new developments in use of expanding single unit type of radium applicator (scientific exhibit) (E. C. Ernst and E. C. Ernst, Jr.), 1952, **68,** 825

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—— cervix, cancer; new diagnostic adjunct: beta glucuronidase (L. D. Odell and J. C. Burt), 1950, **64,** 169 (ab)

—— cervix, cancer; obesity as complication (R. C. Hildreth), 1951, **66,** 867 (ab)

—— cervix, cancer; operative treatment; radical panhysterectomy with pelvic lymph node excision (A. Brunschwig), 1952, **67,** 877 (ab)

—— cervix, cancer; panhysterectomy; evaluation of results (R. T. F. Schmidt), 1952, **68,** 165 (ab)

—— cervix, cancer; pathologic aspects (W. J. Siebert), 1949, **61,** 741 (ab)

—— cervix cancer, preinvasive (E. R. Pund and S. H. Auerbach), 1948, **60,** 147 (ab)

—— cervix, cancer; preinvasive and invasive (E. R. Pund, J. B. Nettles, J. D. Caldwell and H. E. Nieburgs), 1948, **60,** 860 (ab)

—— cervix, cancer; racial incidence (W. E. Howes), 1948, **60,** *391

—— cervix, cancer, radiation; gastrointestinal complications (E. F. Aune and B. V. White), 1952, **68,** 533 (ab)

—— cervix, cancer; radiation therapy (O. Chance), 1952, **68,** 335 (ab)

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This Book
Consolidated Indices 1948-1952

Volumes 59-68

was set, printed and bound by the Collegiate Press of Menasha, Wisconsin. The page trim size is 7¾ x 10½ inches. The type page is 37 x 58 picas. The type face is Linotype Old Style, No. 21 and Bodoni Bold, set 8 point on 9 point. The text paper is 45 lb. white Deep Falls English Finish. The cover is Bancroft Linen Finish 6445.

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